JVC

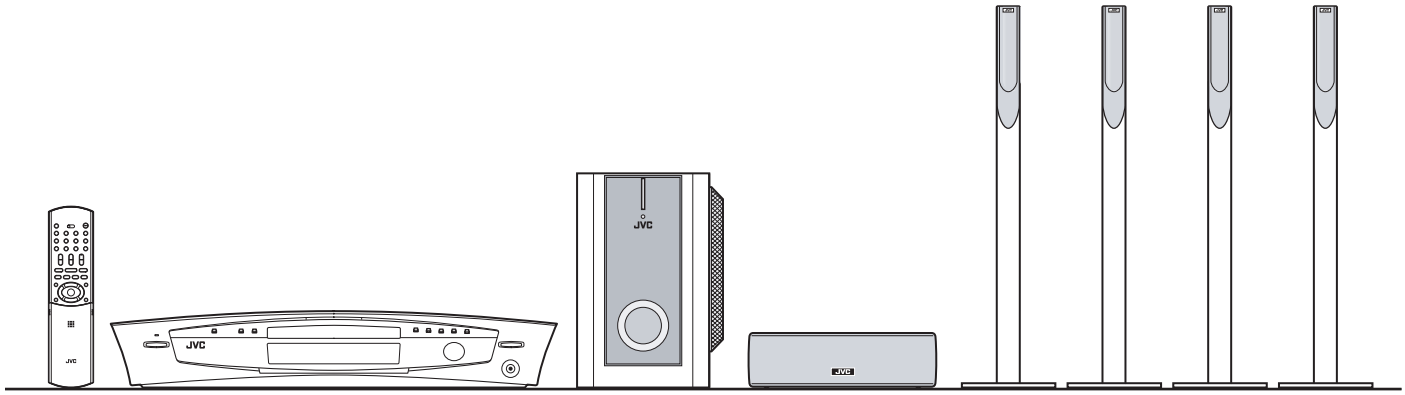
SERVICE MANUAL

DVD DIGITAL CINEMA SYSTEM

TH-A85

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe



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No.MB040
2003/11

SPECIFICATION

Center Unit			
Audio	Audio Input Sensitivity/Impedance (1 kHz), Total Harmonic Distortion 0.01%		
	Analog input	AUX IN	360 mV/47 kΩ
	Digital input*	Optical	-21 dBm to -15 dBm (660 nm ±30 nm)
	* Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency - 32 kHz, 44.1 kHz, 48 kHz).		
Video	Color System		PAL
	Horizontal Resolution		500 lines
	Signal-to-Noise Ratio		64 dB(Composite signal when "RGB" is selected)
	Video Output Level	Composite video	1 V(p-p)/75 Ω
		S-video	(Y: luminance) : 1 V(p-p)/75 Ω (C: chrominance, burst) : 0.286 V(p-p)/75 Ω
Tuner	Tuning Range	FM	87.5 MHz to 108.0 MHz
		AM(MW)	552 kHz to 1629 kHz
General	Power Requirements		AC 230 over, 50 Hz
	Power Consumption		20 W (at operation) 2.5 W (in standby mode)
	Dimensions (W × H × D)		398 mm × 70 mm × 265 mm
	Mass		2.7 kg
Subwoofer			
Amplifier	Front/Center/Surround		80 W per channel, RMS at 6 Ω at 1kHz, with 10% total harmonic distortion.
	Subwoofer		100 W, RMS at 4 Ω at 100Hz, with 10% total harmonic distortion.
General	Power Requirements		AC 230 over, 50 Hz
	Power Consumption		150 W (at operation) 0 W (in standby mode)
	Dimensions (W × H × D)		235 mm × 335 mm × 492 mm
	Mass		13.0 kg
Sparker			
Satellite	Power Handing Capacity		80W
	Impedance		6 Ω
	Dimensions (W × H × D)		250 mm × 1103 mm × 250 mm
	Mass		3.77 kg
Center	Power Handing Capacity		80W
	Impedance		6 Ω
	Dimensions (W × H × D)		258 mm × 75 mm × 81 mm
	Mass		0.95 kg

Designs & Specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

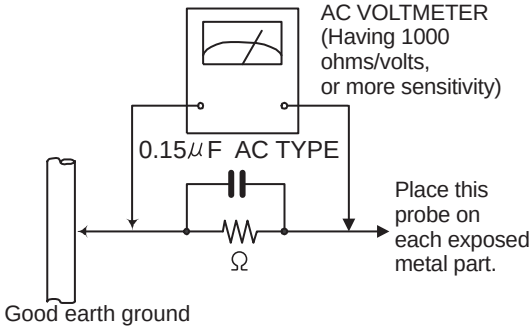
(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
  Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
  Measure the AC voltage across the resistor with the AC voltmeter.
  Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
(2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
(3) Essential safety critical components are identified by (⚠) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

1.5.1 Warning

(1) Service should be performed by qualified personnel only.
(2) This equipment has been designed and manufactured to meet international safety standards.
(3) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(4) Repairs must be made in accordance with the relevant safety standards.
(5) It is essential that safety critical components are replaced by approved parts.
(6) If mains voltage selector is provided, check setting for local voltage.

> ⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

1.6 Preventing static electricity

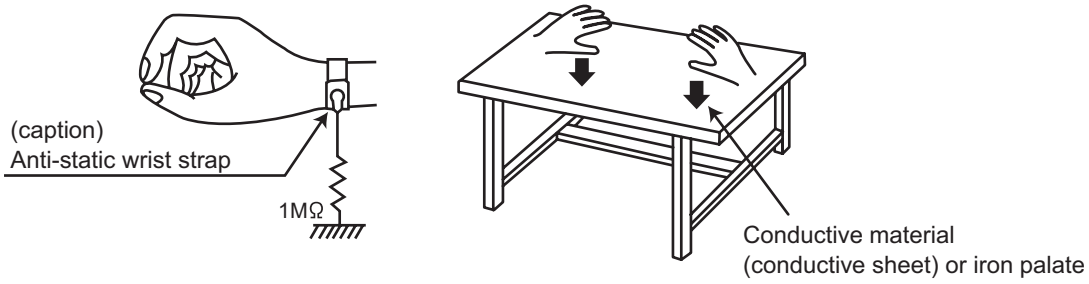
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.6.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

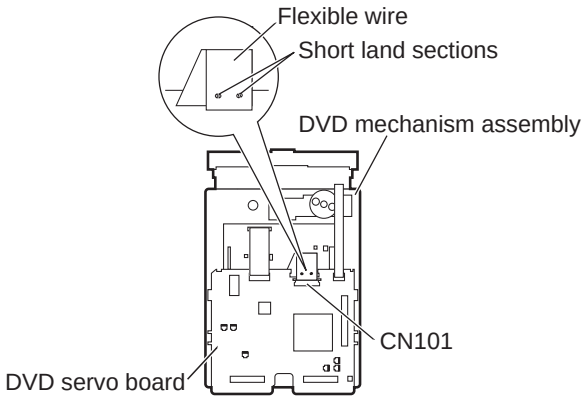
1.7 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.8 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the DVD pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connector CN101 on the DVD servo board. (If the flexible wire is disconnected without applying solder, the DVD pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



1.9 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

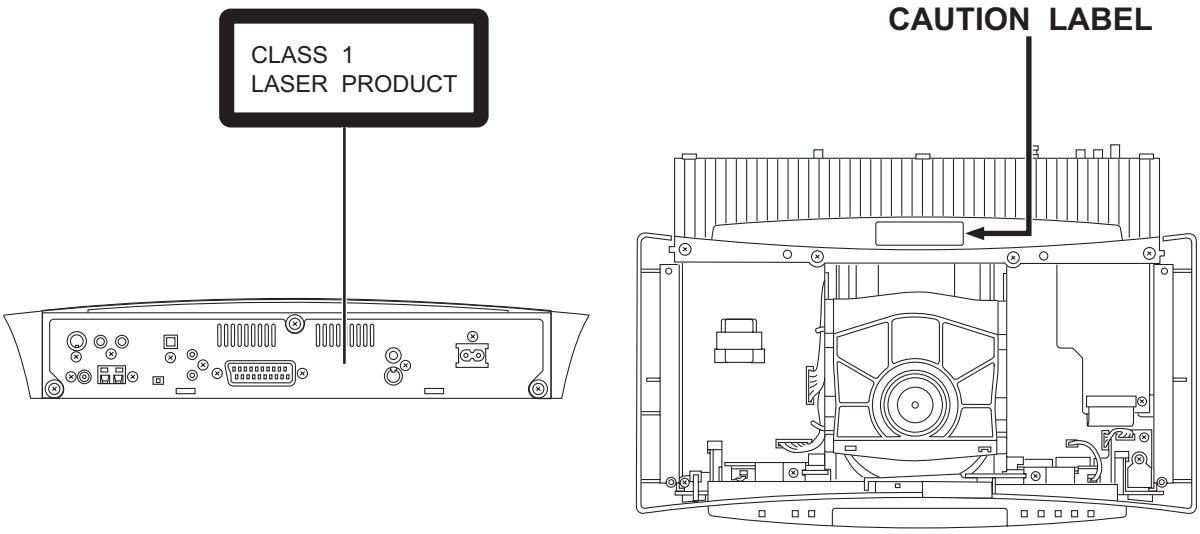
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABEL and PRINT

WARNING LABEL and PRINT



SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body section

3.1.1 Removing the top plate (See Fig.1)

(1) From the top side of the main body, remove the four screws **A** attaching the top plate.
(2) Remove the top plate from main body.

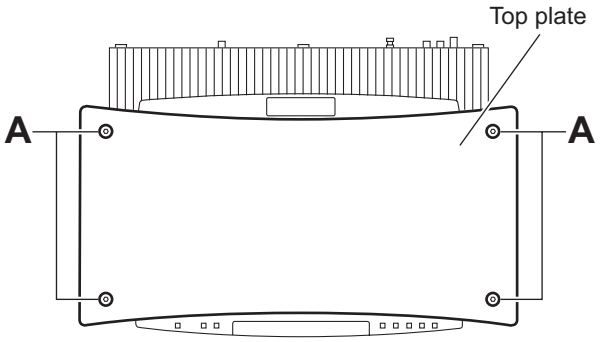


Fig.1

3.1.2 Removing the rear cover (See Figs.2 and 3)

- Prior to performing the following procedures, remove the top plate.
  (1) From the rear side of the main body, remove the three screws **B** attaching the rear cover. (See Fig.2)
  (2) From the top side of the main body, remove the two screws **C** and two screws **D** attaching the rear cover. (See Fig.3)
  (3) Remove the rear cover upward.

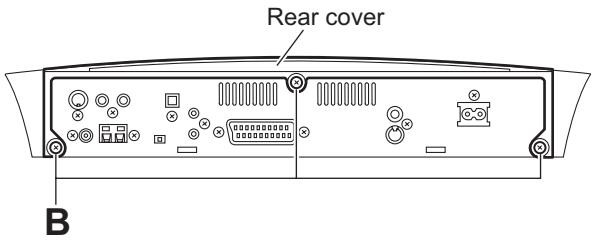


Fig.2

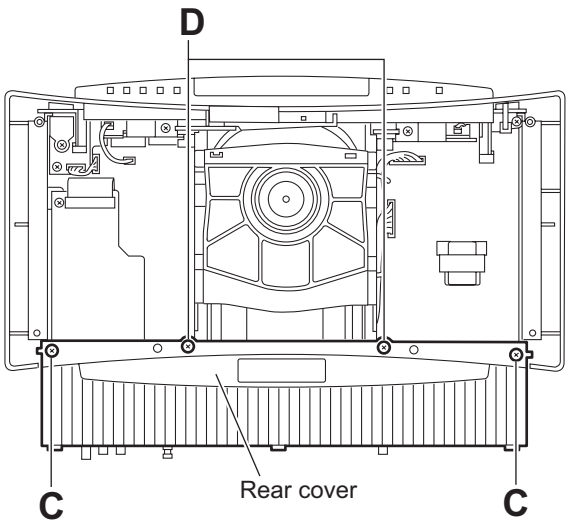


Fig.3

3.1.3 Removing the rear panel (See Fig.4)

- Prior to performing the following procedures, remove the top plate and rear cover.
  (1) From the rear side of the main body, remove the nine screws **E** and screw **F** attaching the rear panel.
  (2) Remove the rear panel from main body.

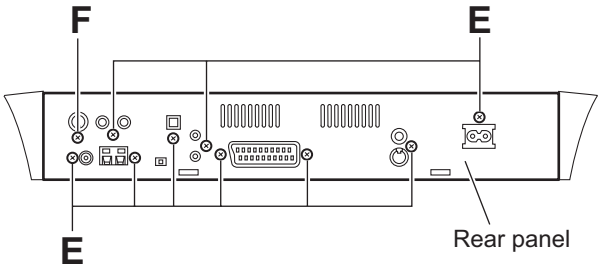


Fig.4

3.1.4 Removing the front panel assembly (See Figs.5 and 6)

- Prior to performing the following procedures, remove the top plate.
  (1) From the top side of the head phone board, remove the three screws **G** attaching the front panel assembly. (See Fig.5)
  (2) Disconnect the card wires from the connectors CN408 and CN412 on the main board. (See Fig.5)
  (3) Extend the side of the front panel assembly in the direction of the arrows **a**. (See Fig.5)
  (4) Remove the front panel assembly in the direction of the arrows **c**, while releasing the claw **b**. (See Fig.6)

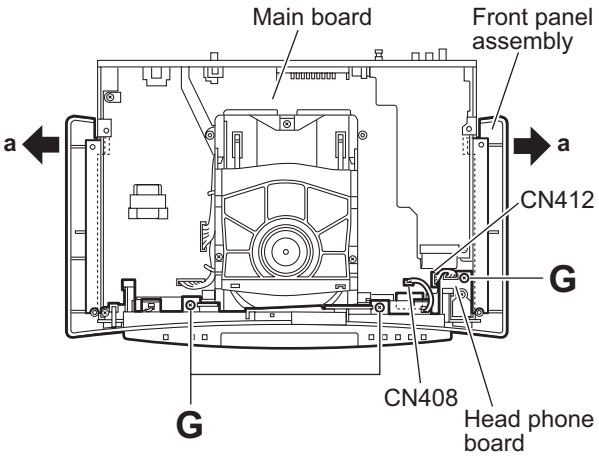


Fig.5

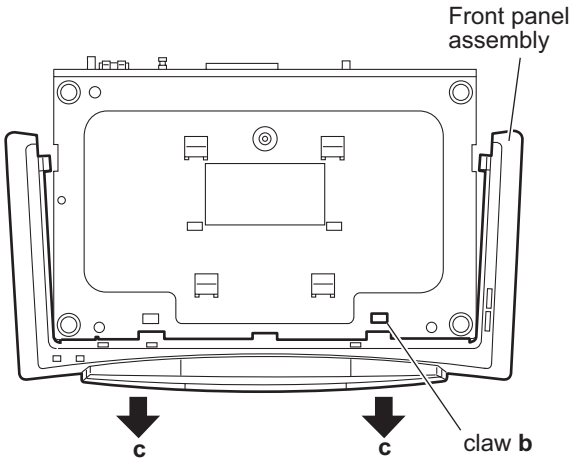


Fig.6

3.1.5 Removing the DVD mechanism assembly (See Figs.7 and 8)

- Prior to performing the following procedures, remove the top plate and rear cover.
  (1) From the top side of the main body, remove the two screws **H** and screw **J** on the DVD mechanism assembly. (See Fig.7)
  (2) Disconnect the connectors CN502 and CN503 on the DVD servo board from the connectors CN405 and CN406 on the main board while lifting the DVD mechanism assembly upward. (See Fig.8)
  (3) Take out the DVD mechanism assembly from the main board.

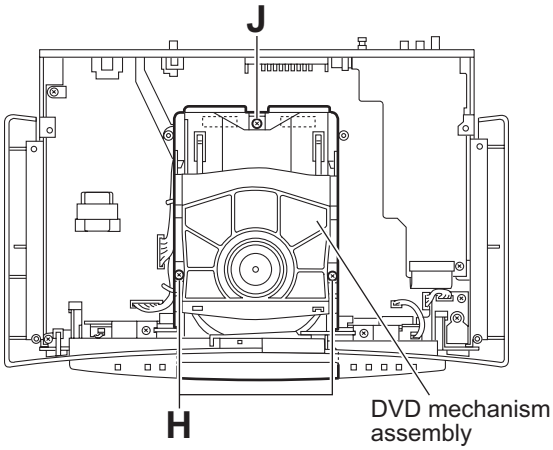


Fig.7

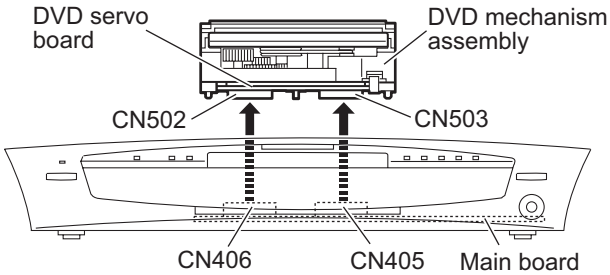


Fig.8

3.1.6 Removing the DSP board (See Figs.9 and 10)

- Prior to performing the following procedures, remove the top plate and rear cover.
  (1) From the top side of the DSP board, disconnect the card wires from the connectors CN401 on the DSP board. (See Fig.10)
  (2) Remove the screw **K** attaching the DSP board from the section **d** of the barrier. (See Fig.10)
  (3) From the back side of the main body, remove the screw **L** and two screws **M** attaching the DSP board. (See Fig.9)

Reference:

- When attaching the DSP board, hang the DSP board on the section **d** of the barrier. (See Fig.10)

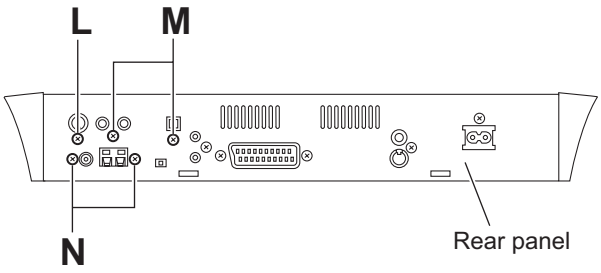


Fig.9

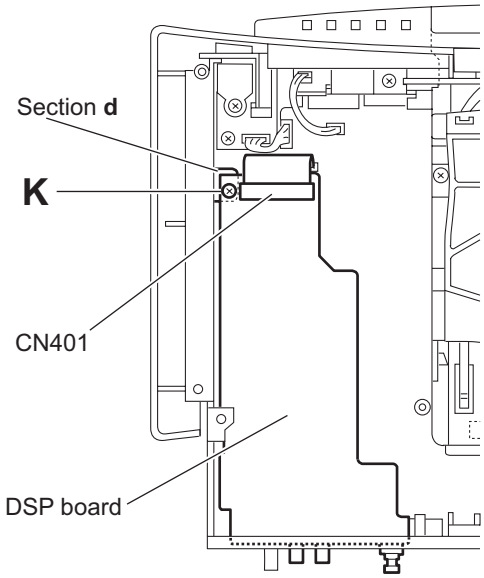


Fig.10

3.1.7 Removing the tuner (See Figs.9 and 11)

- Prior to performing the following procedures, remove the top plate, rear cover and DSP board.
  (1) From the top side of the tuner, disconnect the card wire from the connector CN1 on the tuner. (See Fig.11)
  (2) From the back side of the main body, remove the two screws **N** attaching the tuner. (See Fig.9)
  (3) Take out the tuner from the main body.

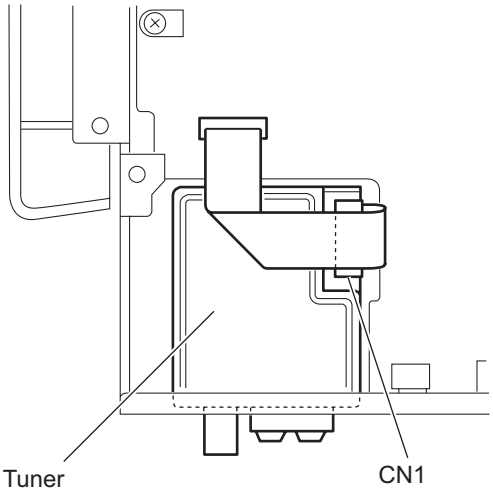


Fig.11

3.1.8 Removing the main board (See Fig.12)

- Prior to performing the following procedures, remove the top plate, rear cover, rear panel, DVD mechanism, DSP board and tuner.
  (1) From the top side of the main board, disconnect the card wires from the connectors CN408 and CN412 on the main board.
  (2) From the top side of the power board, disconnect the card wires from the connectors CN901 and CN902 on the power board.
  (3) Remove the three screws **P** attaching the main board.
  (4) Take out the main board from the main body.

Reference:

- After connecting the wire to the connectors CN901 and CN902 on the power board, fix the wire by the wire clamp.

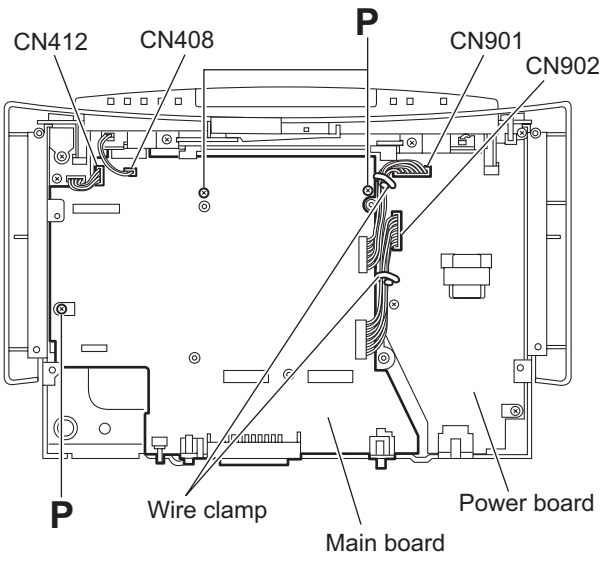


Fig.12

3.1.9 Removing the power board (See Fig.13)

- Prior to performing the following procedures, remove the top plate, rear cover and rear panel.
  (1) From the top side of the main body, disconnect the card wires from the connectors CN901 and CN902 on the power board.
  (2) Remove the four screws **Q** attaching the power board.
  (3) Take out the power board from the bottom chassis.

Reference:

- Remove the front panel assembly and DVD mechanism assembly as required.
- After connecting the wire to the connectors CN901 and CN902 on the power board, fix the wire by the wire clamp.

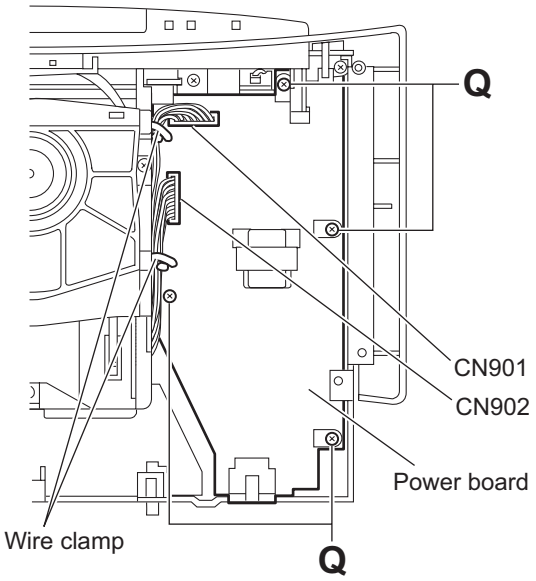


Fig.13

3.2 Front panel assembly section

- Prior to performing the following procedures, remove the top plate and front panel assembly.

3.2.1 Removing the FL board (See Figs.1 and 2)

(1) From the inside of the FL board, disconnect the wire from the connector CN502 on the volume board. (See Fig.2)
(2) Remove the FL board in the direction of the arrow **e**, while lifting the claws **f** upward. (See Fig.1)
(3) Take out the FL board from front panel assembly.

Reference:

- Before attaching the FL board, be careful not to damage the projection part **g**.
- Before attaching the FL board, insert FL board in the section **h**.

3.2.2 Removing the head phone board (See Fig.1)

- Remove the screw **R** attaching the head phone board, take out the head phone board.

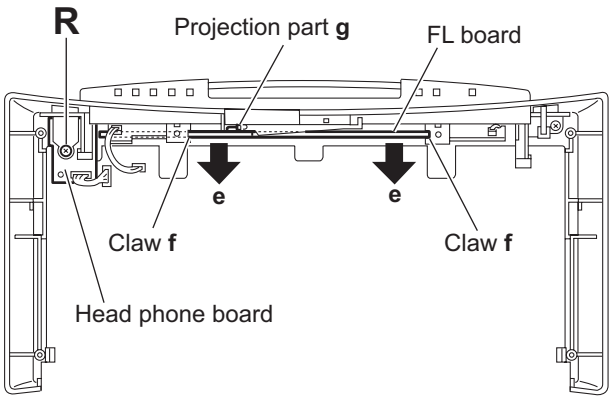


Fig.1

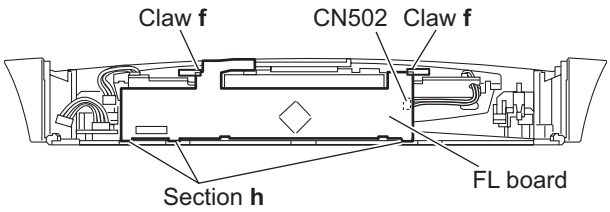


Fig.2

3.2.3 Removing the switch board (See Fig.3)

- Prior to performing the following procedures, remove the FL board.
- Remove the two screws **S** attaching the switch board, take out the switch board.

3.2.4 Removing the volume board (See Fig.3)

- Prior to performing the following procedures, remove the FL board.
- Remove the two screws **T** attaching the volume board, take out the volume board.

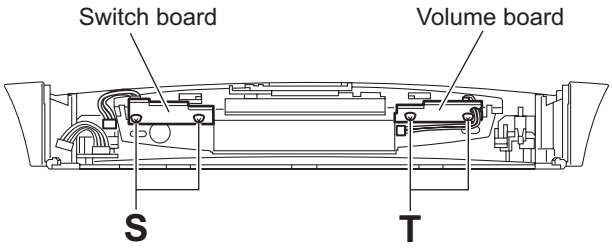


Fig.3

3.3 DVD mechanism section

- Prior to performing the following procedures, remove the top plate and rear cover, and remove the DVD mechanism assembly.

3.3.1 Removing the tray (See Figs.1 and 2)

(1) From the left side of the DVD mechanism assembly, push the slide cam in the direction of the arrow 1 and then pull out the tray in the direction of the arrow 2. (See Fig.1)

(2) Push the tray stoppers **a** in the direction of the arrow 3, pull out the tray in the direction of the arrow 4. (See Fig.2)

3.3.2 Attaching the tray (See Fig.2)

When attaching the tray, insert the tray to the rail of the DVD mechanism assembly and then push the tray in the DVD mechanism assembly.

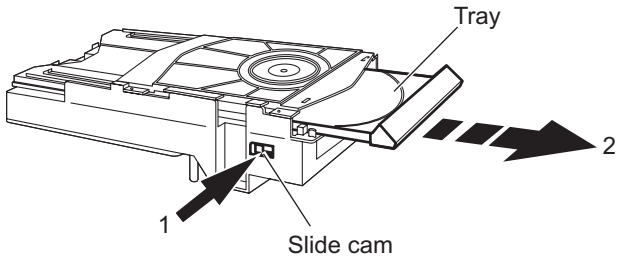


Fig.1

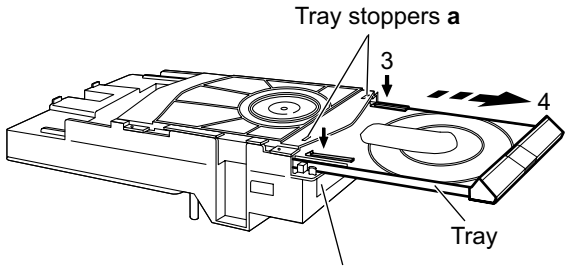


Fig.2

3.3.3 Removing the DVD servo board (See Fig.3)

(1) From the bottom side of the DVD mechanism assembly, disconnect the card wires from the connectors CN201 and CN202 on the DVD servo board.

Caution:
disconnecting the flexible wire from connector CN101 on the DVD servo board.
If the flexible wire is disconnected without attaching solder, the DVD pickup unit may be destroyed by static electricity.

(2) Release the locks of the connector CN101 (in the direction of the arrow 1) on the DVD servo board, disconnect the flexible wire.

(3) Release the locks of the connector CN101 on the DVD servo board in the direction of the arrow 1, disconnect the flexible wire.

Caution:
In the assembly, be sure to remove solders from the short land sections **b** after connecting the flexible wire to the connector CN101 on the DVD servo board.

(4) While pushing the claw **c** of the DVD mechanism assembly in the direction of the arrow 2, remove the DVD servo board in an upward direction.

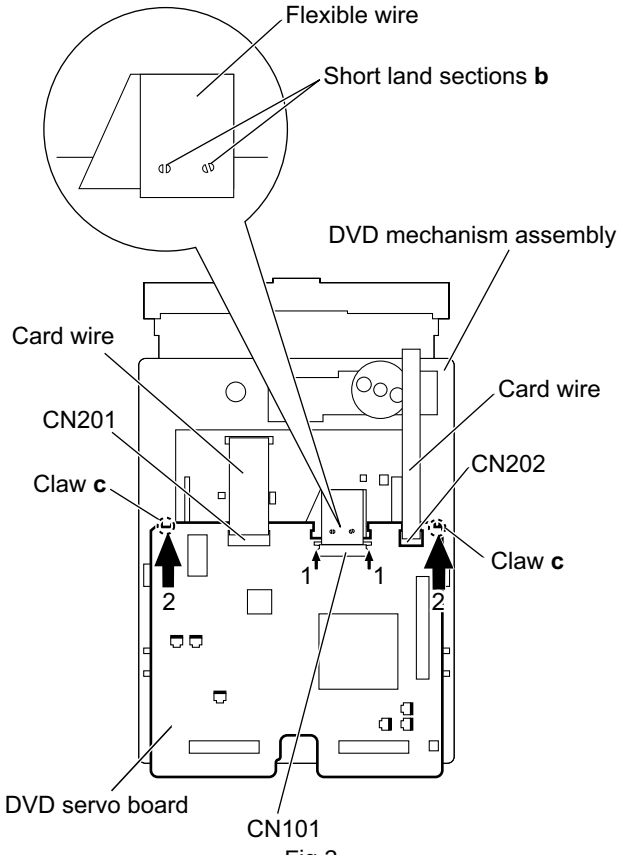


Fig.3

3.3.4 Removing the clamper base (See Fig.4)

(1) From the top side of the DVD mechanism assembly, remove the four screws **A** attaching the clamper base.
(2) Remove the clamper base from the bosses **d** of the loading base in an upward direction, remove the clamper base from the sections **e** while sliding it in the direction of the arrow.

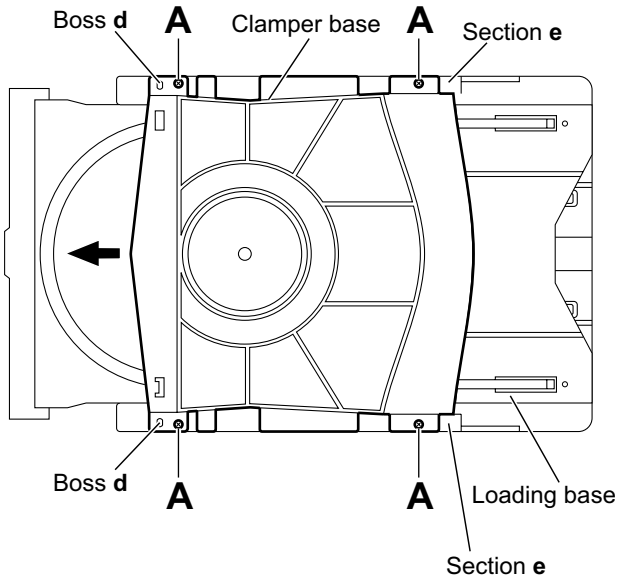


Fig.4

3.3.5 Removing the tray drive board (See Fig.5)

- Prior to performing the following procedures, remove the clamper base.

(1) From the bottom side of the DVD mechanism assembly, remove the solders from the soldered sections **f** on the tray drive board.
(2) Remove the screw **B** attaching the tray drive board to the DVD mechanism assembly.

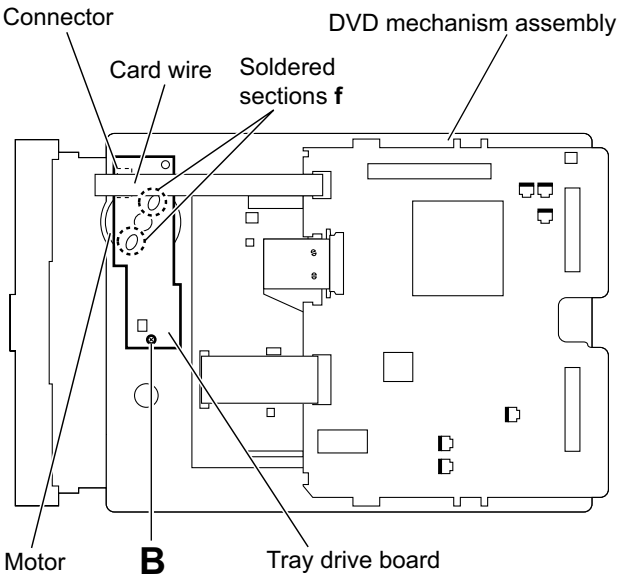


Fig.5

3.3.6 Removing the motor (See Fig.6)

- Prior to performing the following procedures, remove the clamper base and tray drive board.
  (1) From the top side of the DVD mechanism assembly, remove the belt of the pulley gear.

  Note:
  Take care not to attach grease on the belt.
  (2) Remove the screw **C** attaching the motor to the DVD mechanism assembly.

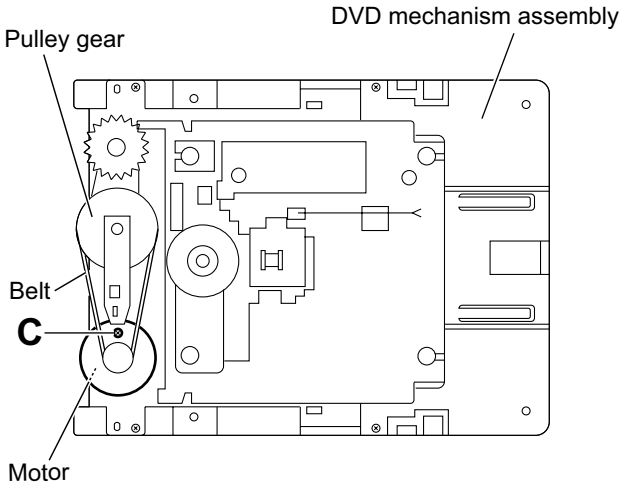


Fig.6

3.3.7 Removing the DVD traverse mechanism assembly (See Fig.7)

- Prior to performing the following procedures, remove the DVD servo board and clamper base.
  (1) From the top side of the DVD mechanism assembly, remove the four screws **D** attaching the DVD traverse mechanism assembly to the loading base.
  (2) Take out the DVD traverse mechanism assembly from the loading base.

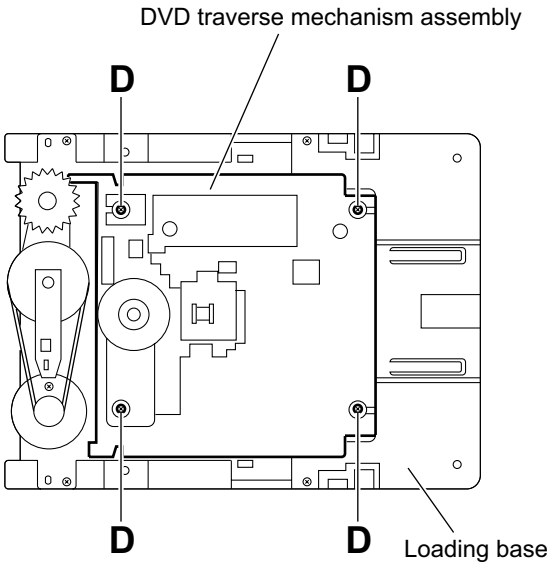


Fig.7

3.3.8 Removing the DVD pickup unit (See Figs.8 to 10)

- Prior to performing the following procedures, remove the DVD servo board, clamper base and DVD traverse mechanism assembly.
  (1) From the top side of the DVD traverse mechanism assembly, remove the screw **E** attaching the plate and torsion spring. (See Fig.8)
  (2) Remove the shaft from the section **g** and then remove the shaft from the section **h**. (See Fig.9)
  (3) Disengage the section **i** of the DVD pickup unit and then remove the DVD pickup unit with the shaft. (See Fig.9)
  (4) Pull the shaft out of the DVD pickup unit. (See Fig.10)
  (5) Remove the two screws **F** attaching the SW. actuator. (See Fig.10)

3.3.9 Attaching the DVD pickup unit (See Figs.8, 10 to 12)

Reference:

Refer to the explanation of "Removing the DVD pickup unit" on the preceding page.

(1) Attach the SW. actuator and shaft to the DVD pickup unit. (See Fig.10)
(2) Engage the section **i** of the DVD pickup unit to the shaft of the DVD traverse mechanism assembly first, and set the both ends of the shaft of the DVD pickup unit in the sections **g** and **h** of the DVD traverse mechanism assembly. (See Fig.11)
(3) Slide the DVD pickup unit all the way in the direction of the arrow. (See Fig.12)
(4) Mesh the lead screw to the section **j** of DVD pickup unit and then set the end of the lead screw to the section **k**. (See Fig.12)
(5) Attach the torsion spring. (See Fig.8)
(6) Attach the plate. (See Fig.8)

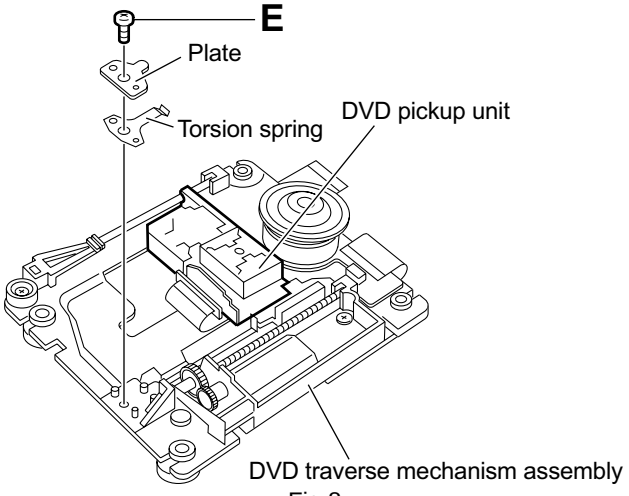


Fig.8

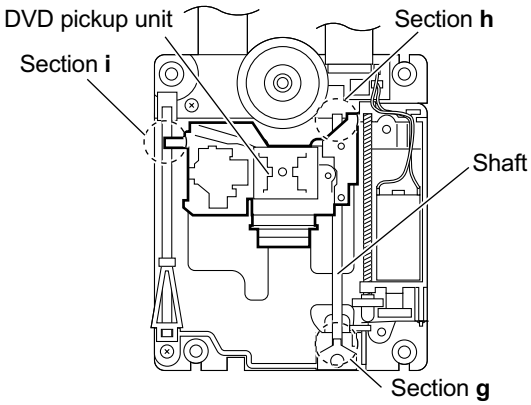


Fig.9

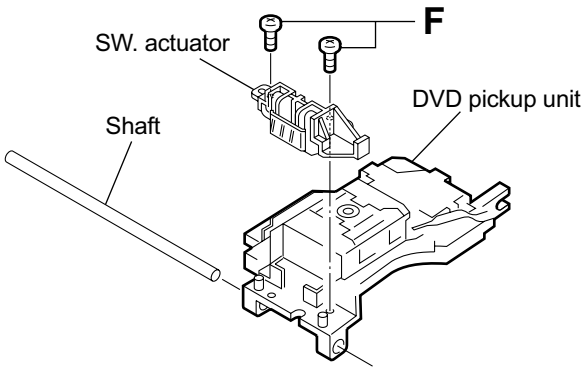


Fig.10

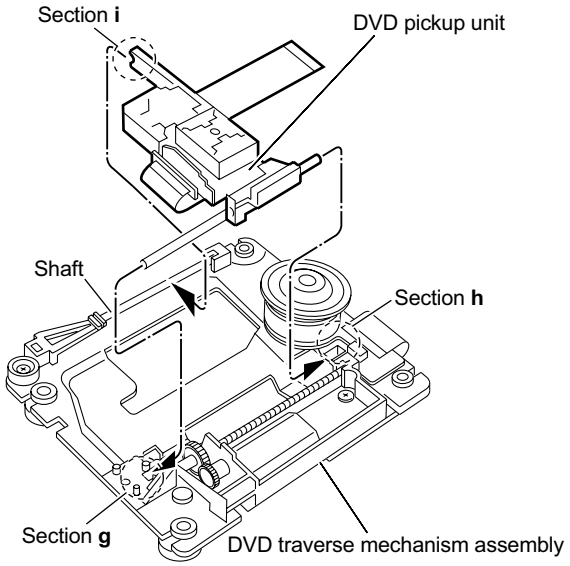


Fig.11

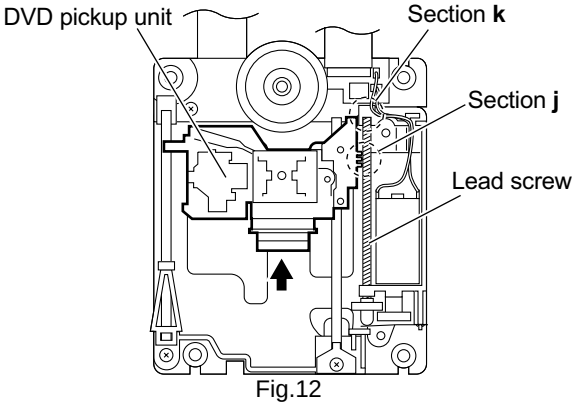


Fig.12

3.3.10 Removing the spindle motor board (See Figs.13 and 14)

- Prior to performing the following procedures, remove the DVD servo board, clamper base and DVD traverse mechanism assembly.
  (1) From the top side of the DVD traverse mechanism assembly, remove the feed motor wire that is soldered to the spindle motor board. (See Fig.13)
  (2) From the bottom side of the DVD traverse mechanism assembly, remove the three screws **G** attaching the spindle motor board. (See Fig.14)

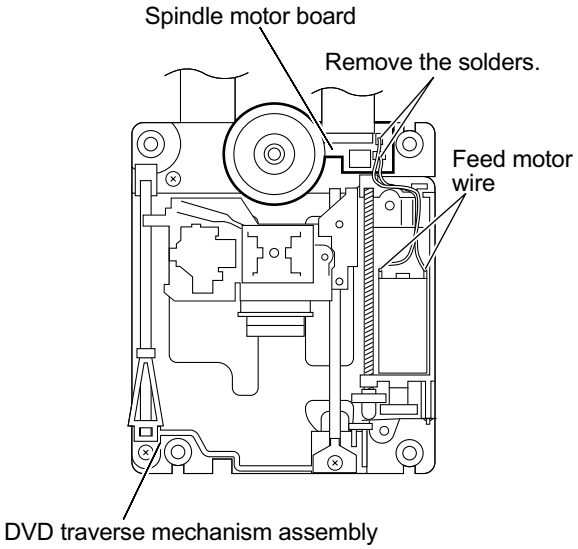


Fig.13

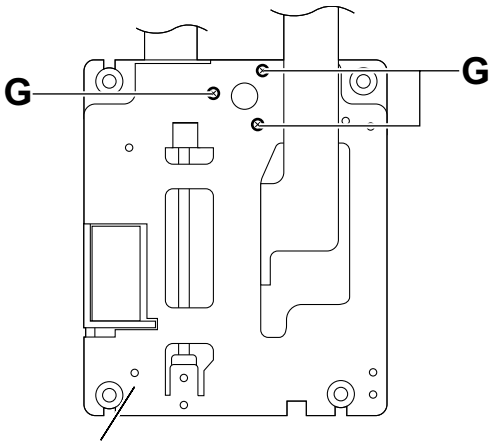


Fig.14

3.3.11 Removing the feed motor (See Figs.15 to 17)

- Prior to performing the following procedures, remove the DVD servo board, clamper base and DVD traverse mechanism assembly.
  (1) From the top side of the DVD traverse mechanism assembly, remove the feed motor wire that is soldered to the spindle motor board. (See Fig.15)
  (2) Remove the screw **H** attaching the feed holder assembly and then take out the feed holder assembly. (See Fig.15)
  (3) Remove the screw **J** attaching the thrust spring. (See Fig.16)
  (4) Remove the feed gear and lead screw in the direction of the arrow. (See Fig.16)
  (5) Remove the two screws **K** attaching the feed motor. (See Fig.17)

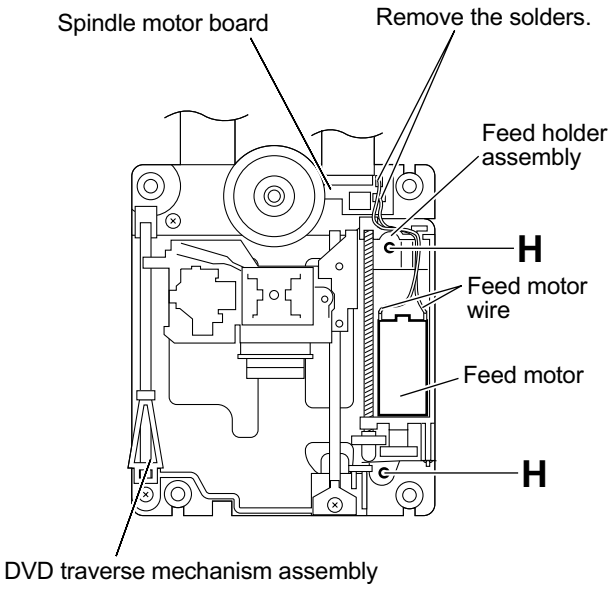


Fig.15

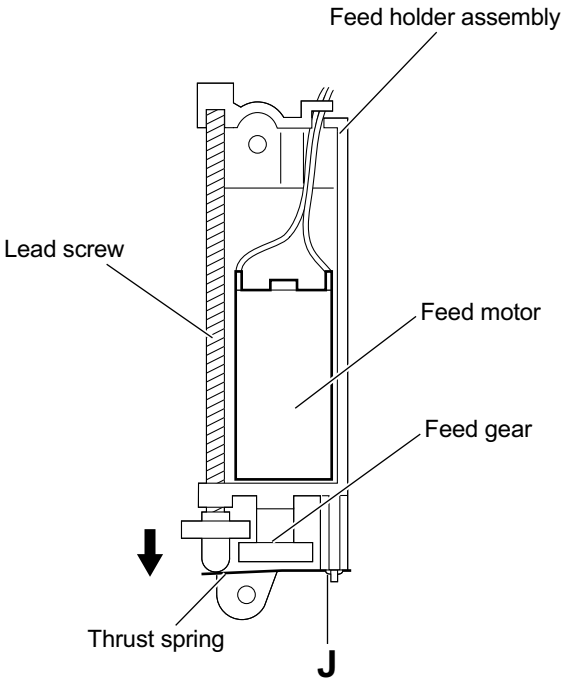


Fig.16

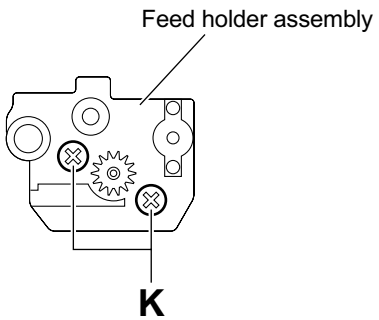


Fig.17

3.4 Speaker section

3.4.1 Removing the amplifier assembly (See Figs.1 and 2)

(1) From the rear side of the speaker main body, remove four screws **A** attaching the heat sink cover. (See Fig.1)
(2) Remove the nine screws **B** attaching amplifier assembly. (See Fig.2)
(3) Move the amplifier assembly backward and disconnect the wire from connector CN402 in the lower part of the amplifier assembly. (See Fig.2)

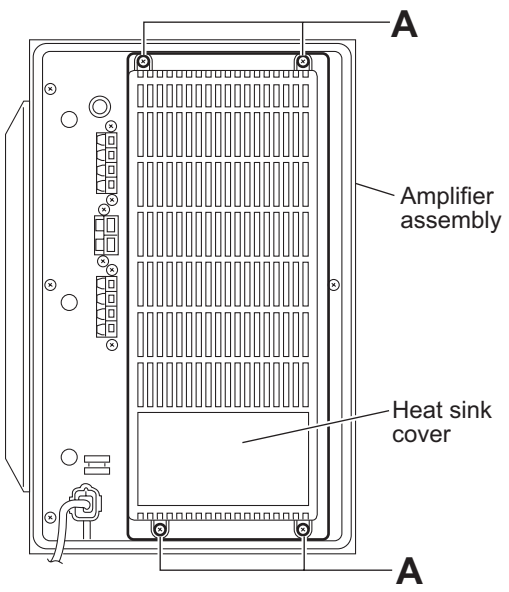


Fig.1

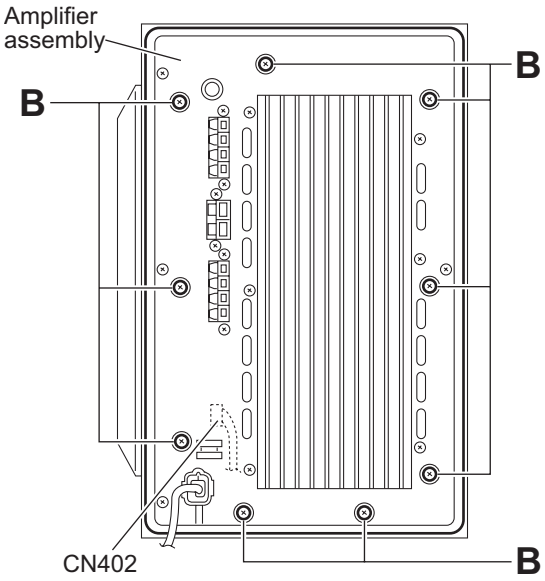


Fig.2

3.4.2 Removing the rear panel (See Fig.3)

- Prior to performing the following procedures, remove the amplifier assembly.
  (1) Remove the four screws **C**, twelve screws **D** and screw **E** attaching the rear panel.
  (2) Take out the rear panel from the amplifier assembly.

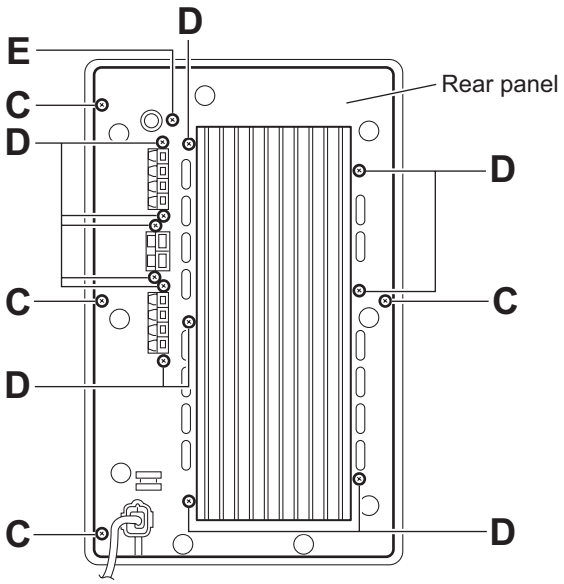


Fig.3

3.4.3 Removing the SP terminal board (See Figs.4 and 5)

- Prior to performing the following procedures, remove the amplifier assembly and rear panel.
  (1) From the top side of the amplifier assembly, disconnect the card wires from the connectors CN101 and CN102 on the mother board. (See Figs.4 and 5)
  (2) Disconnect the connectors CN401, CN403 and CN404 on the SP terminal board from the connectors CN501, CN503 and CN504 on the mother board while lifting the SP terminal board upward. (See Fig.5)
  (3) Take out the SP terminal board from the amplifier assembly.

Reference:

When attaching the SP terminal board, insert the SP terminal board in the section **a** of the barrier.

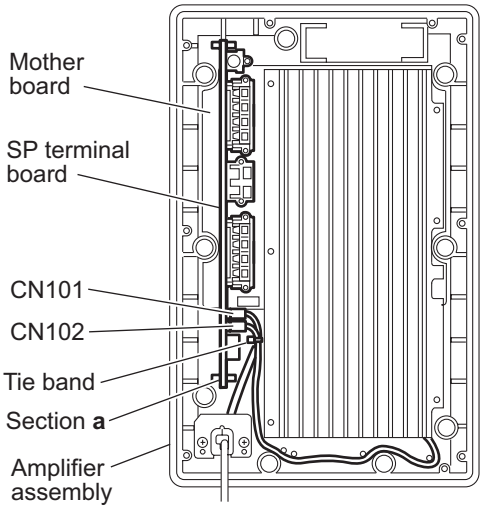


Fig.4

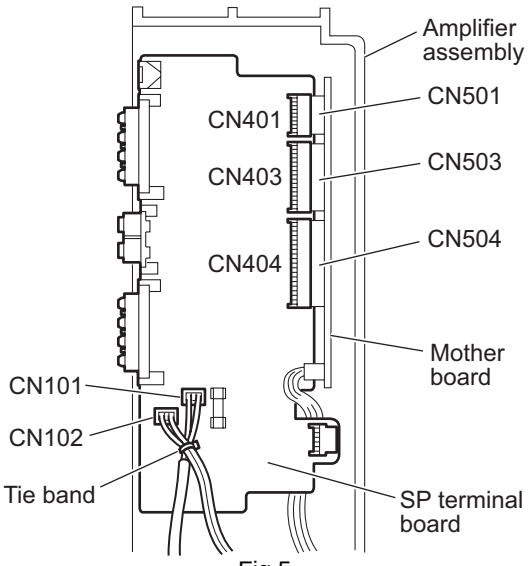


Fig.5

3.4.4 Removing the mother board assembly (See Fig.6)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel and SP terminal board.
  (1) From the top side of the amplifier assembly, disconnect the card wires from the connectors CN151 on the mother board.
  (2) From the top side of the amplifier assembly, remove the five screws **F** attaching the mother board.
  (3) Take out the mother board assembly from the amplifier assembly.

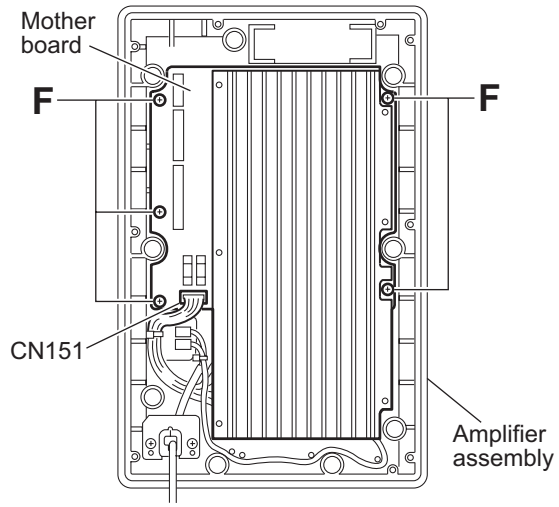


Fig.6

3.4.5 Removing the mother board (See Fig.7)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, SP terminal board and mother board assembly.
  (1) From the bottom side of the mother board, remove the two screws **G** and two screws **H** attaching the mother board.
  (2) Disconnect the connectors CN521, CN522, CN531 and CN532 on the mother board while lifting the mother board upward, and take out the mother board.

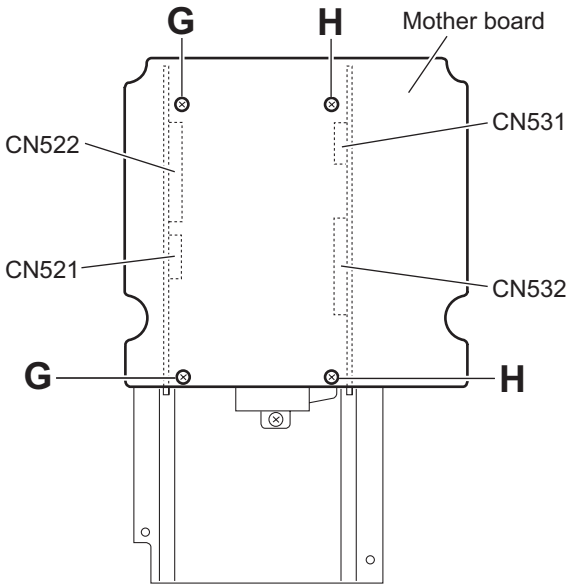


Fig.7

3.4.6 Removing the power amplifier board (A) (See Figs.8 and 9)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, SP terminal board, mother board assembly and mother board.
  (1) Remove the three screws **J** attaching the heat sink to the power amplifier board (A). (See Fig.8)
  (2) From the bottom side of the power amplifier board (A), disengage the four sections **b** of the engagement. (See Fig.9)
  (3) From the top side of the power amplifier board (A), disengage the section **c** of the engagement to the direction of the arrow. (See Fig.9)
  (4) Remove the power amplifier board (A) from the P.TR holder (A).

3.4.7 Removing the power amplifier board (B) (See Figs.8 and 10)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, SP terminal board, mother board assembly and mother board.
  (1) Remove the three screws **K** attaching the heat sink to the power amplifier board (B). (See Fig.8)
  (2) From the bottom side of the power amplifier board (B), disengage the four sections **c** of the engagement. (See Fig.9)
  (3) From the top side of the power amplifier board (B), disengage the section **d** of the engagement to the direction of the arrow. (See Fig.9)
  (4) Remove the power amplifier board (B) from the P.TR holder (B).

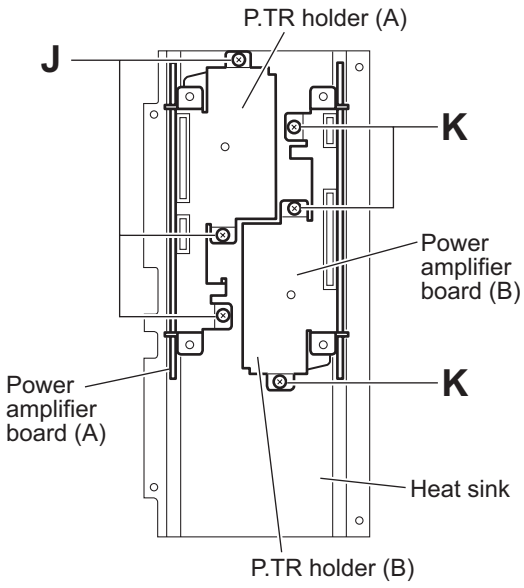


Fig.8

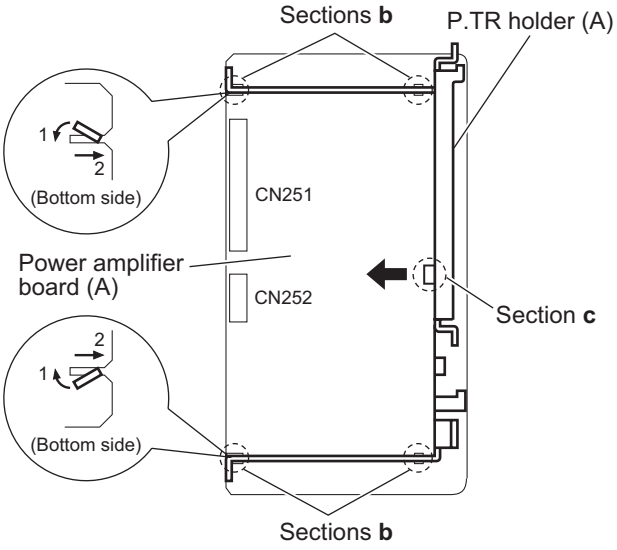


Fig.9

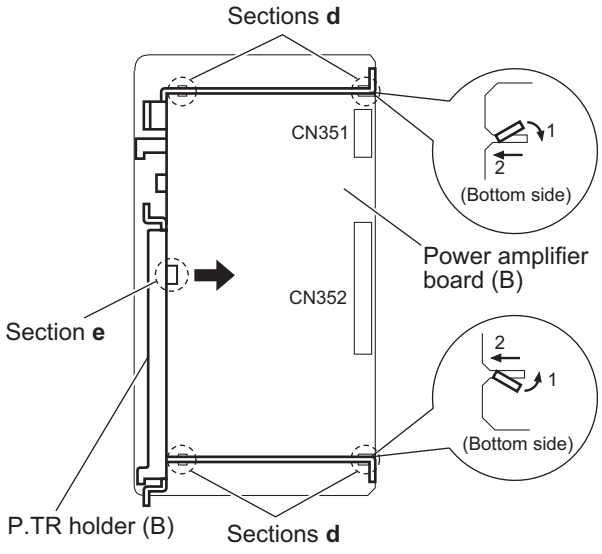


Fig.10

3.4.8 Removing the power transformer (See Fig.11)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, SP terminal board and mother board assembly.
  (1) Remove the tie band, and remove the four screws **L** attaching the power transformer.
  (2) Take out the power transformer from the amplifier assembly.

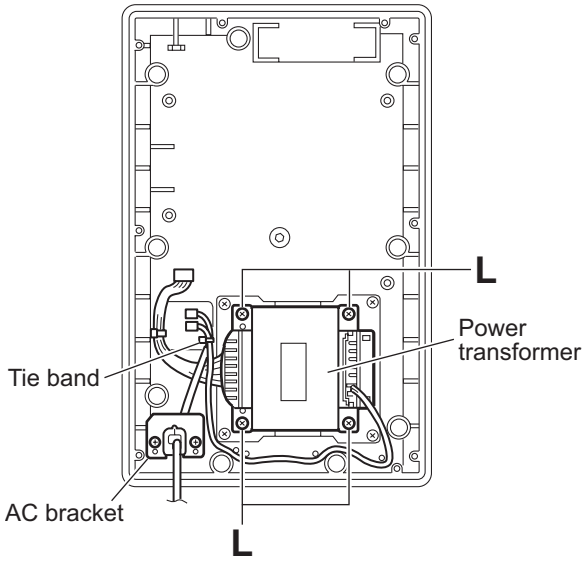


Fig.11

3.4.9 Removing the speaker net (See Figs.12 and 13)

(1) Insert the tip of a flat-bladed screwdriver or similar tool into the space between the speaker main body and speaker net, and lift the speaker net little by little to remove. (See Figs.12 and 13)

Note:

To prevent damaging the speaker net and speaker main body, insert cushioning plates etc. to the section **f** and below the tip of the flat-bladed screwdriver or similar tool.

(2) Take out the speaker net from the speaker main body.

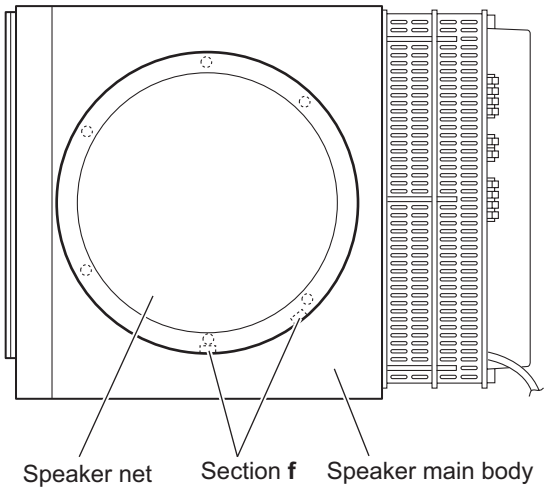


Fig.12

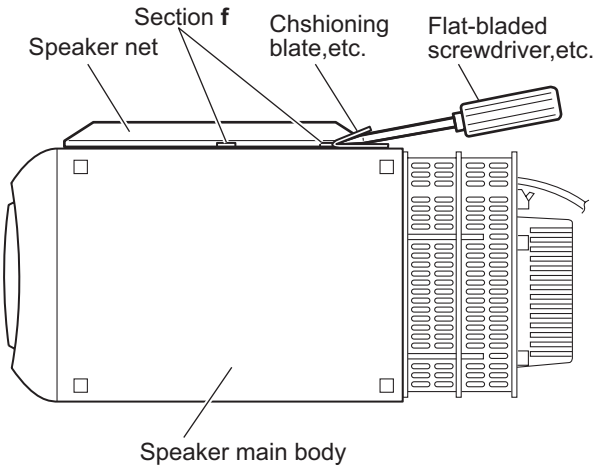


Fig.13

3.4.10 Removing the speaker
(See Figs.14 and 15)

(1) From right side of the speaker main body, remove the eight screws **M** attaching the speaker. (See Fig.14)
(2) Take out the speaker from the speaker main body. (See Fig.15)
(3) Disconnect the wires from the terminal of the speaker. (See Fig.15)

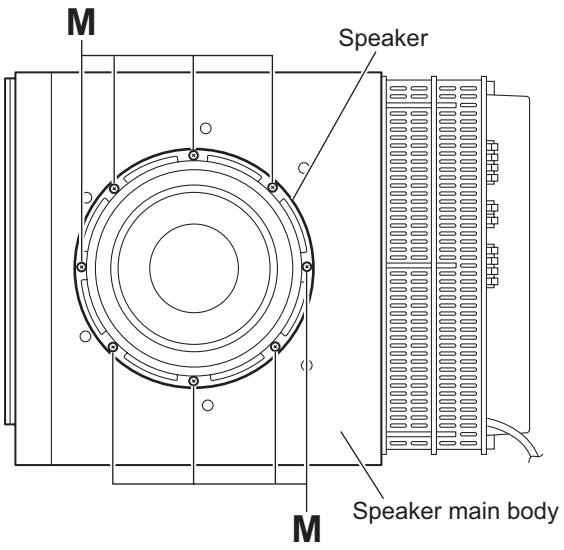


Fig.14

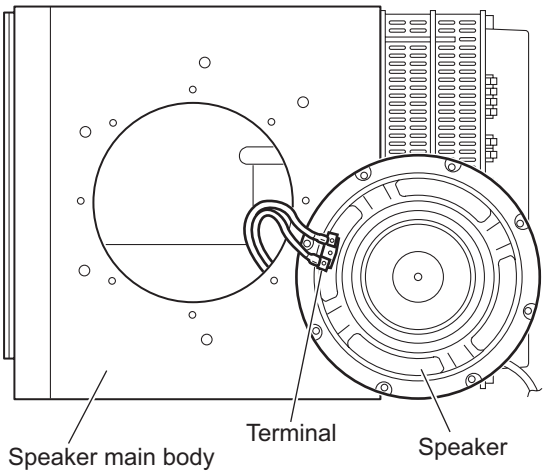


Fig.15

SECTION 4
ADJUSTMENT

4.1 TEST mode (See Fig.1)

(1) This model is provided with a test mode for use in production QC, service and repair.
(2) Before executing the test mode, if a tray is not completely close up, make power to standby from on to close up the tray.
(3) After confirm that a tray is completely close up, pull off the power plug.
(4) Insert the power plug to the outlet while pressing the "STOP" and "OPEN/CLOSE" buttons on the main unit at the same time.
(5) The opening screen showing the version number is displayed.
(6) The test mode includes the following four different states, which are switched over every time the "CHOICE" button on the remote control unit is pressed.
(7) The test mode is exited when the power is switched on or off.

The FL display shows "TEST **". **: Area code

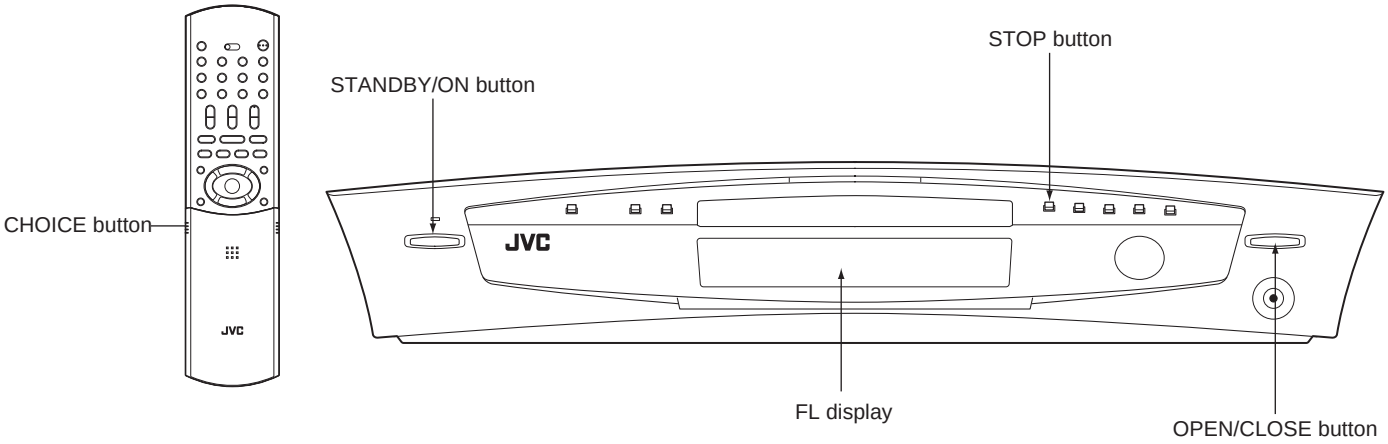


Fig.1

NOTE:

(1) Press the "CHOICE" button once: Firmware version display mode / The FL display shows the version numbers of the micro-computers in use.
Displayed information: [System firm] [Front-end (FE) firm] [Back-end (BE) firm]
(2) Press the "CHOICE" button twice: Indicator check mode / All FL and LED segments light up.
(3) Press the "CHOICE" button three times: Mechanism check mode / The FL display shows "CHECK".
(4) Press the "CHOICE" button four times: Front-end check mode / The FL display shows "EXPERT".

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

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CD-ROM No.SML200311

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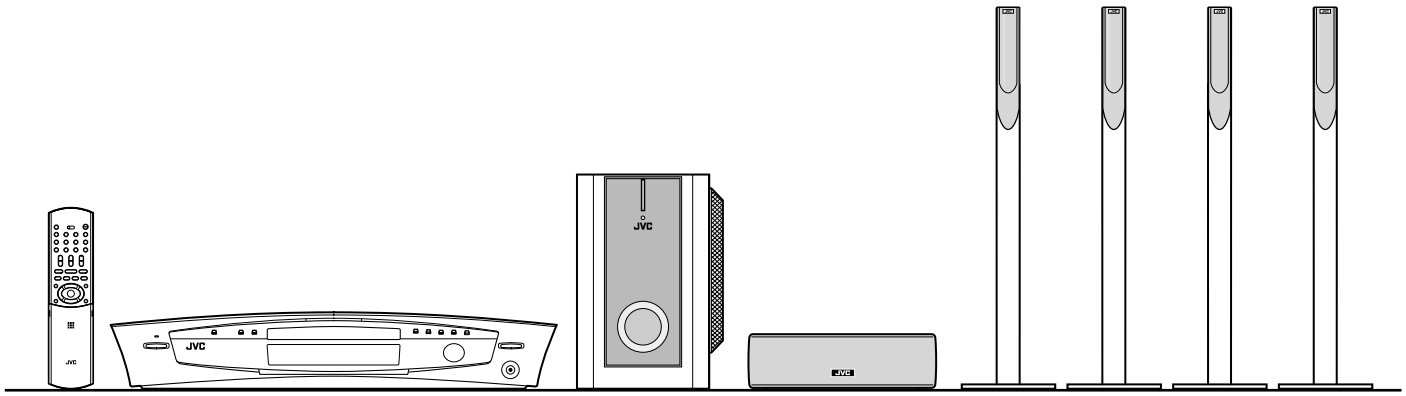
E	Continental Europe
EN	Northern Europe



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Block diagrams ---------- 2-1
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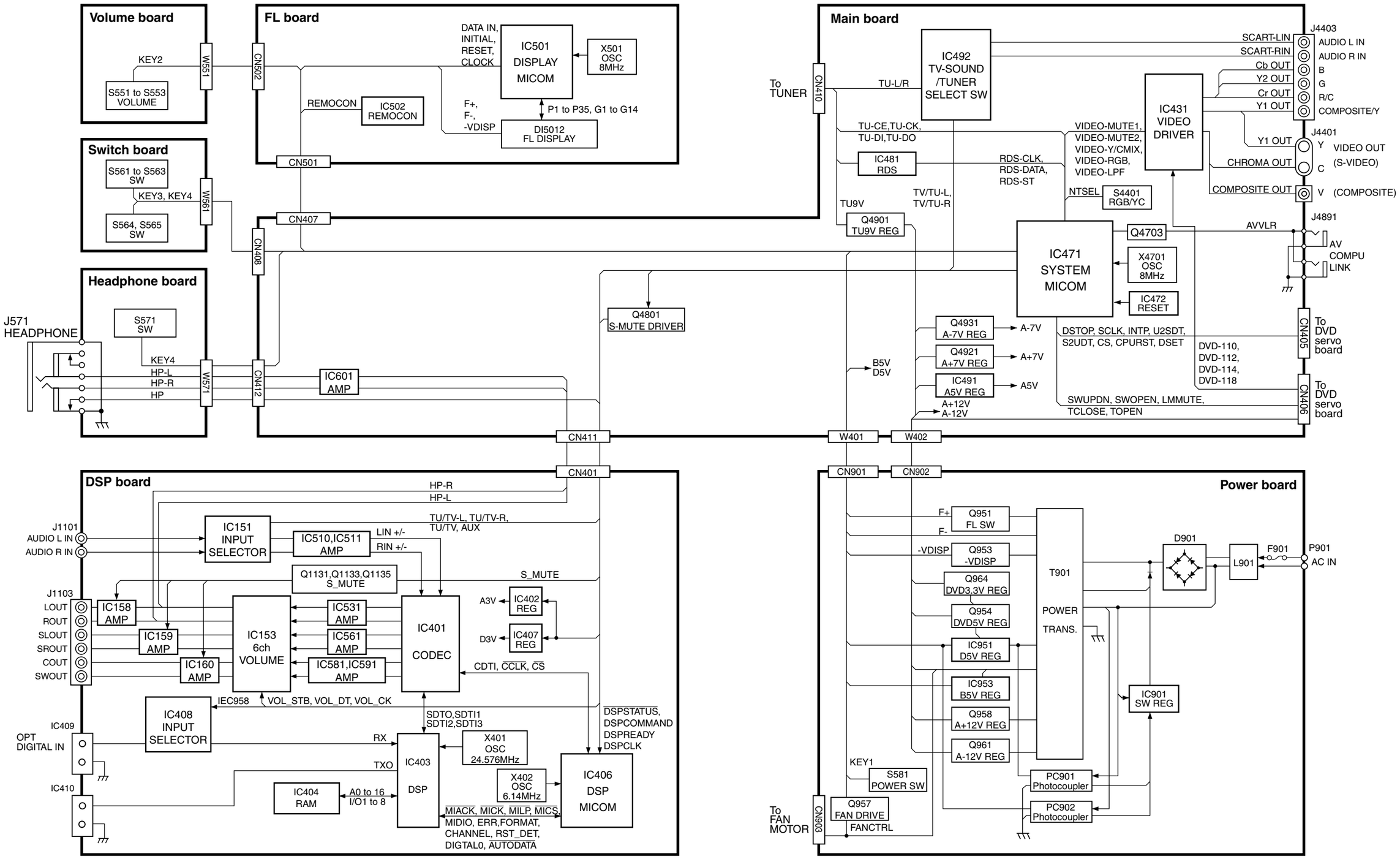
No.MB040SCH
2003/11

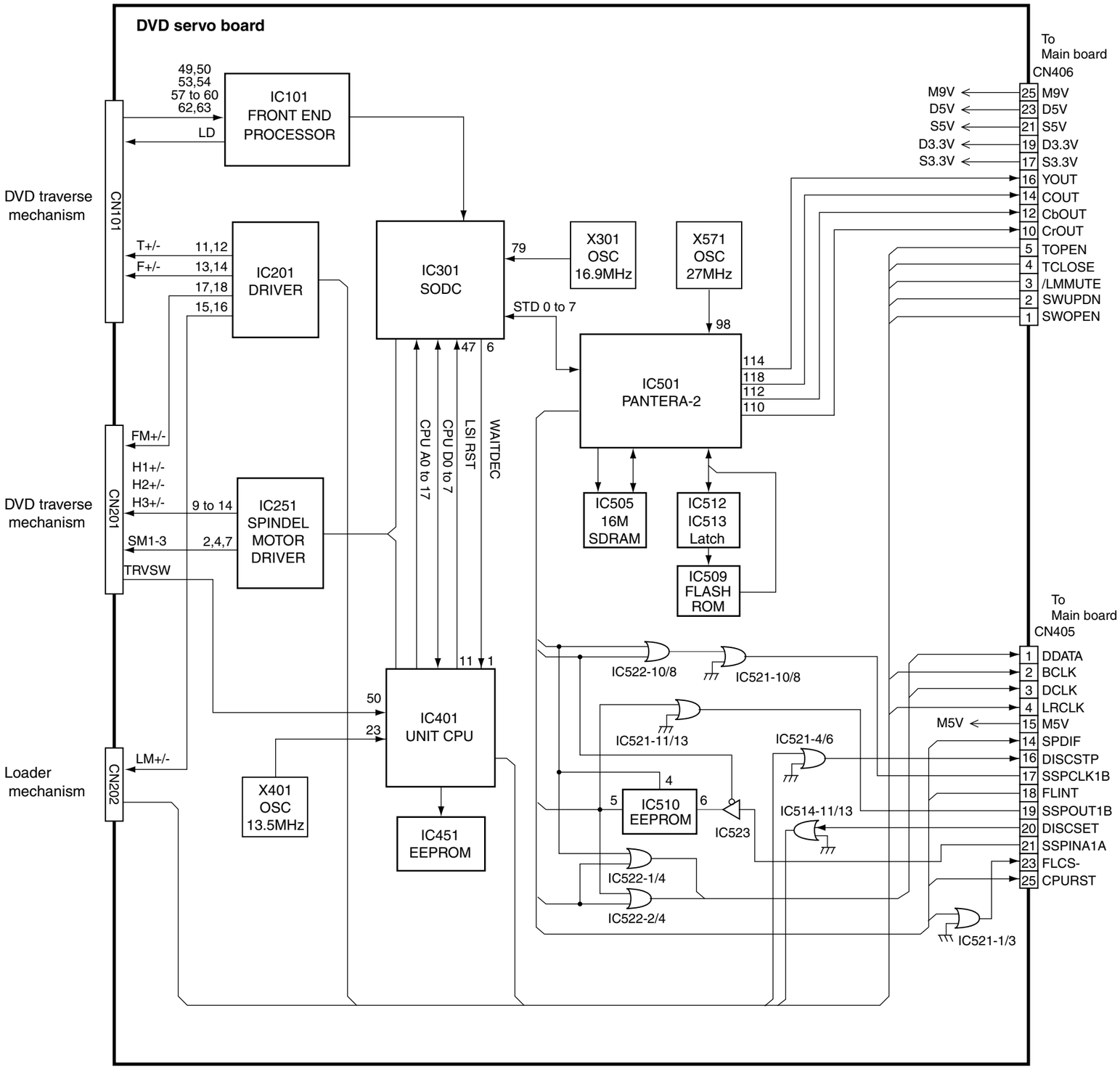
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (⬤) or identified by the "⚠" mark nearby are critical for safety.
(This regulation does not correspond to J and C version.)

Block diagrams

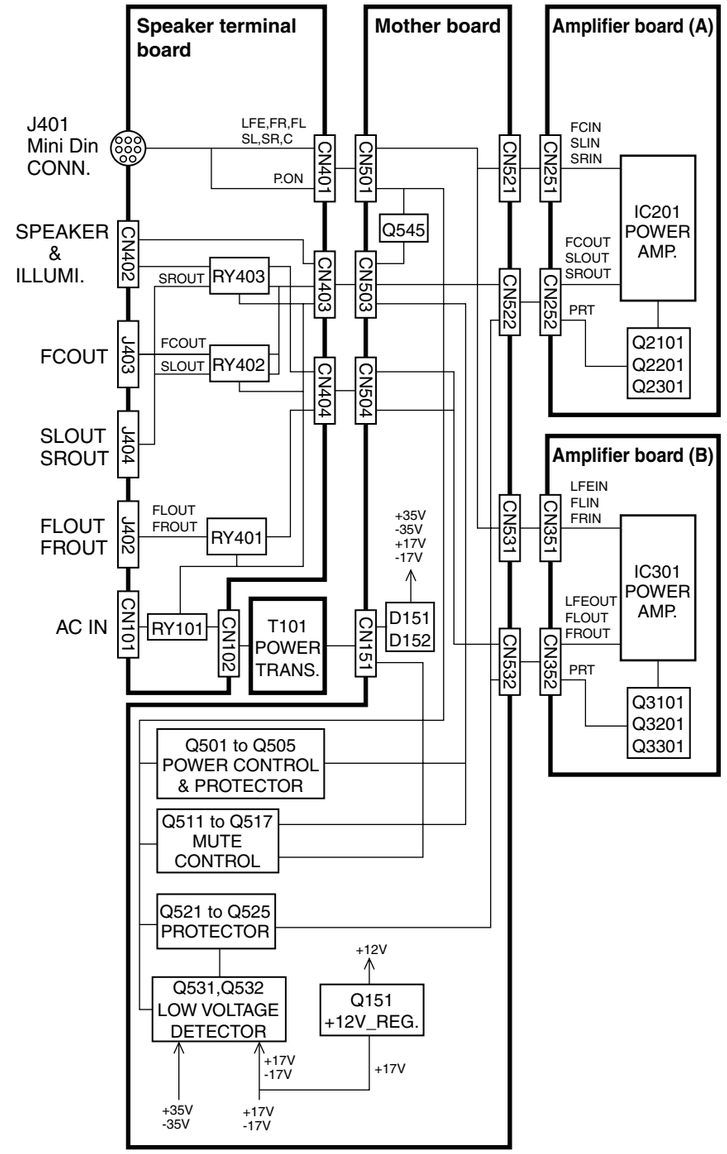
<Main body section>



<DVD servo section>



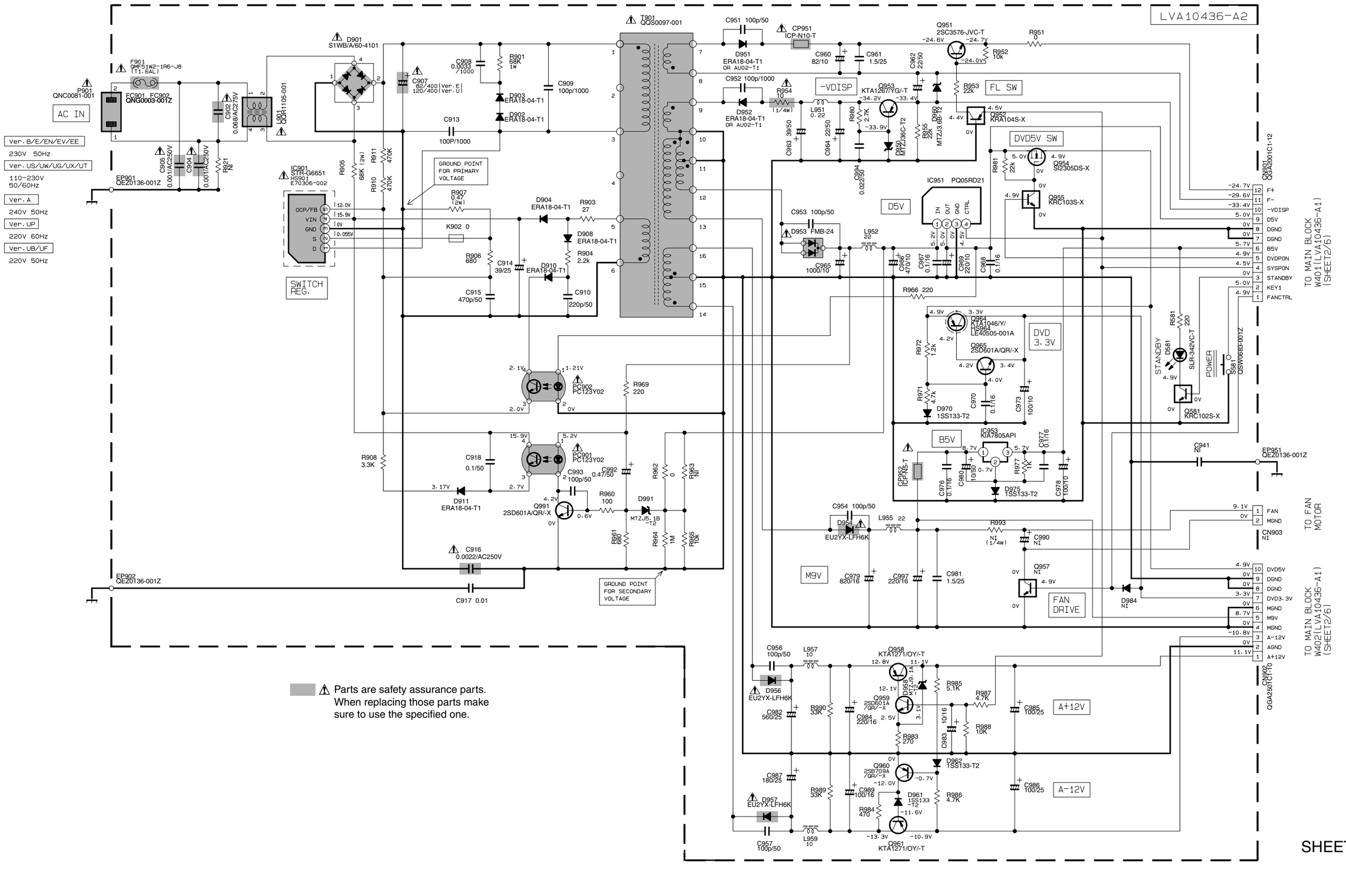
<SP-PWA85 subwoofer section>



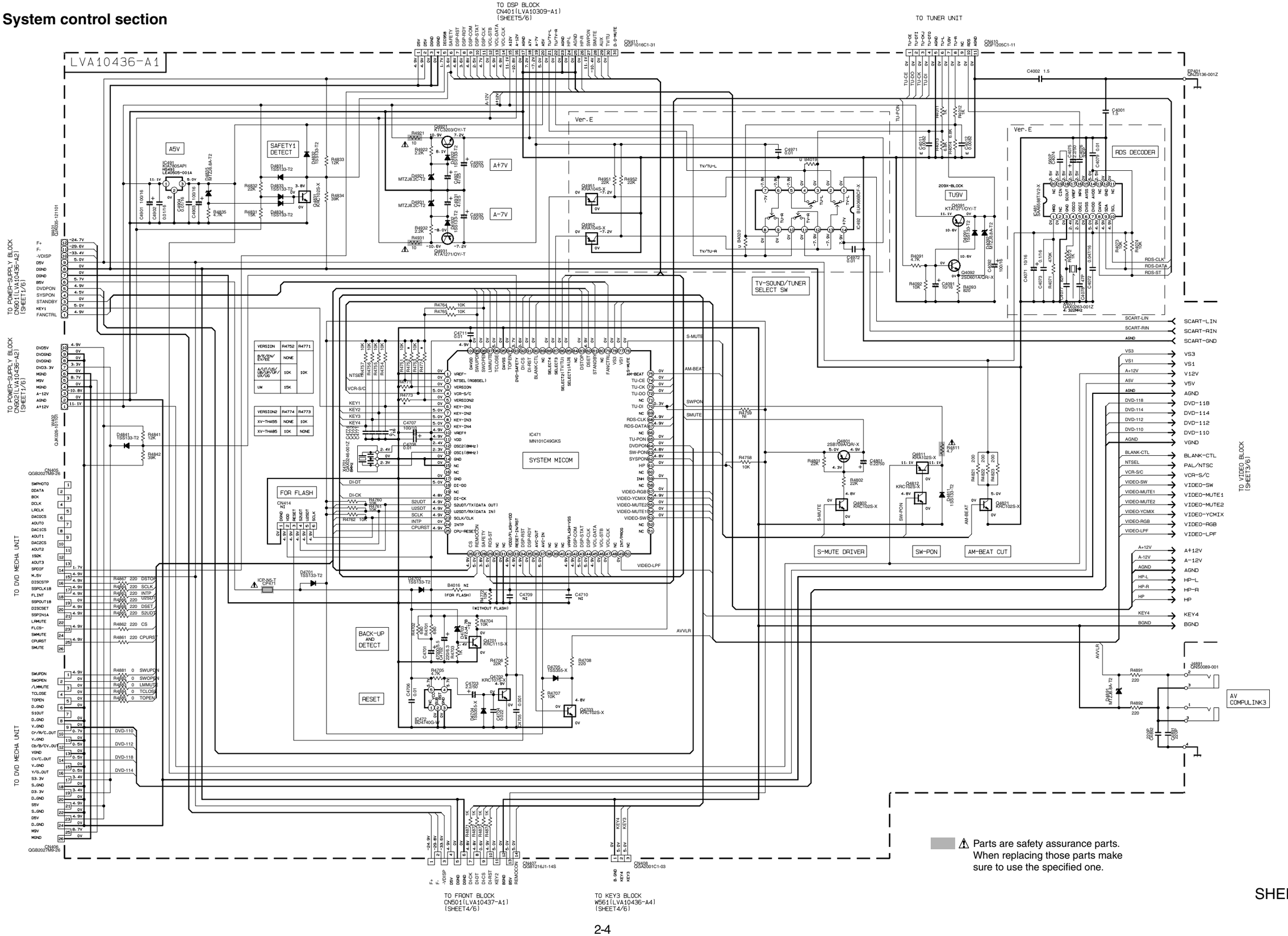
Standard schematic diagrams

<Main body section>

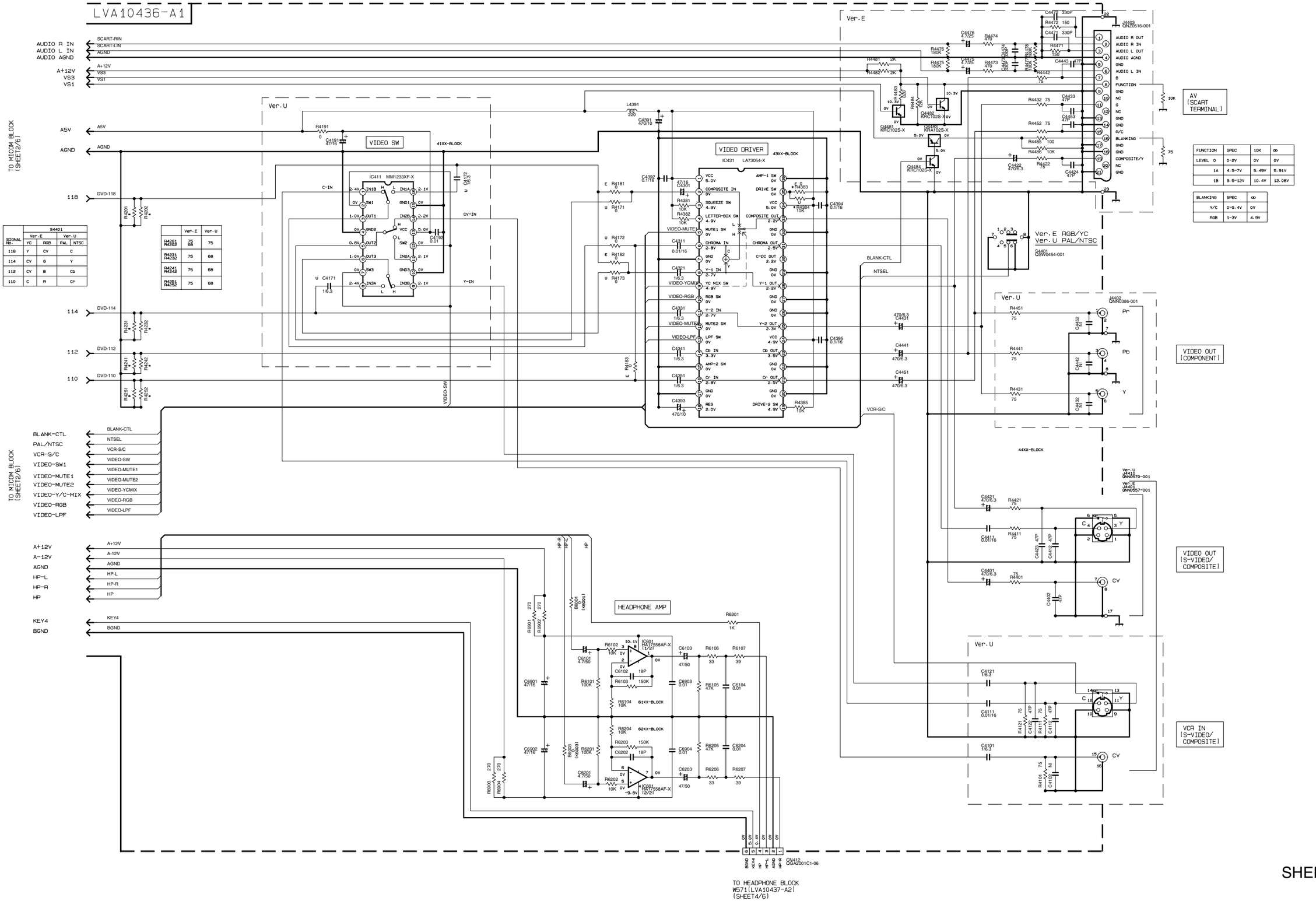
■ Power supply section



■ System control section



■ Video output section



SIGNAL NO.	S4401 Ver.E YC	Ver.E RGB	Ver.U PAL	Ver.U NTSC
118	Y	CV		C
114	CV	G		Y
112	CV	B		Cb
110	C	R		Cr

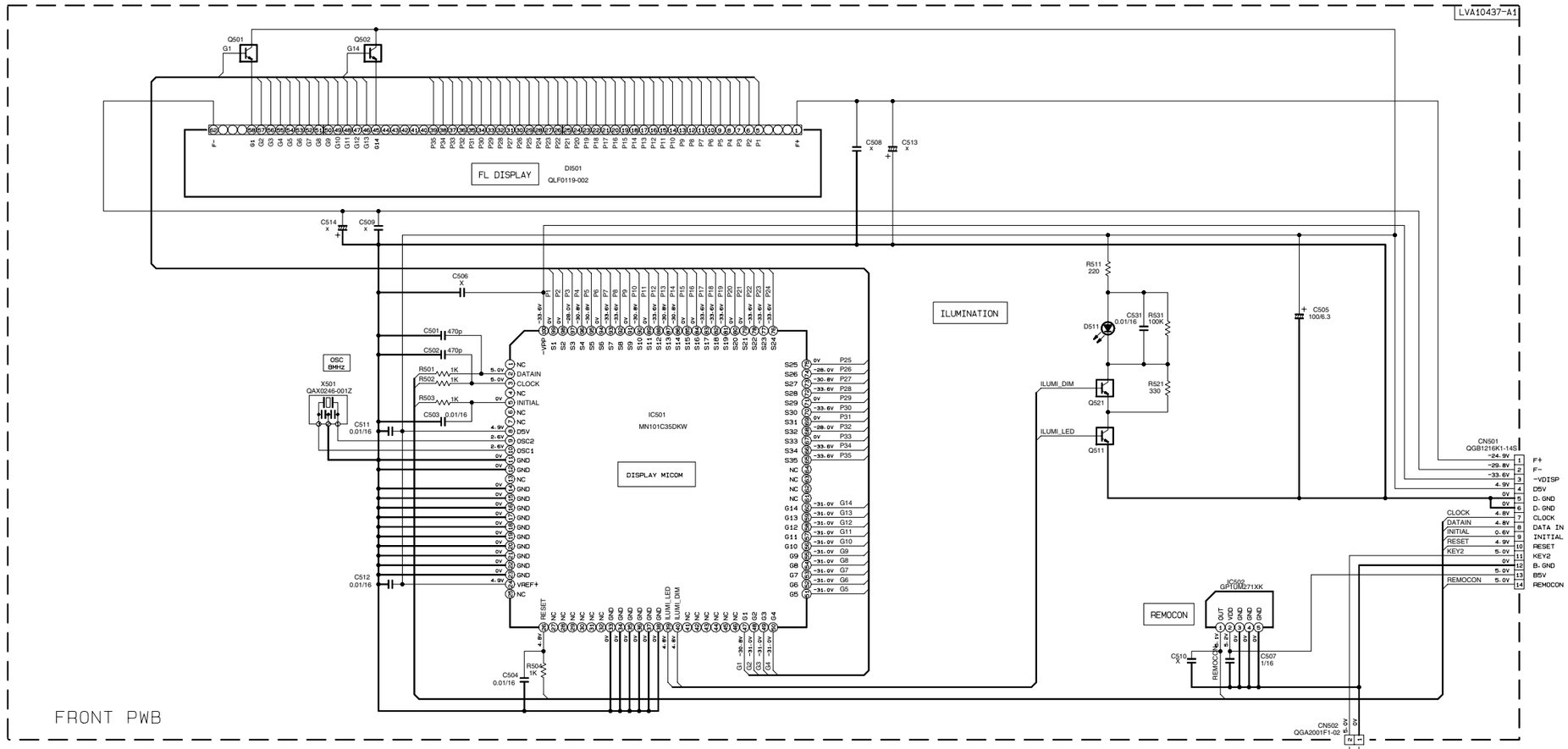
	Ver.E	Ver.U
R4201 R4202	75 6B	75
R4231 R4232	75	6B
R4241 R4242	75	6B
R4251 R4252	75	6B

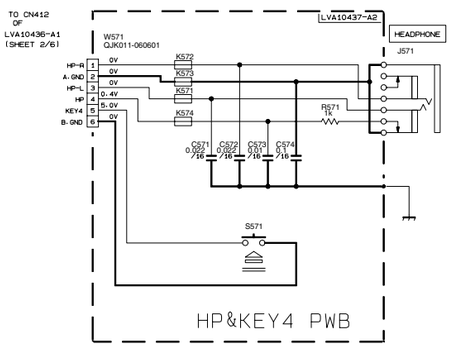
FUNCTION	SPEC	10K	∞
LEVEL 0	0-2V	0V	0V
1A	4.5-7V	5.49V	5.91V
1B	9.5-12V	10.4V	12.08V

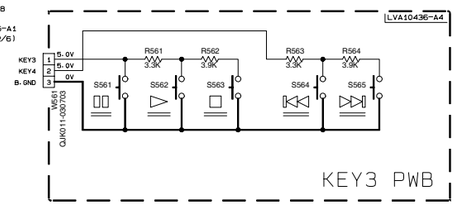
BLANKING	SPEC	∞
Y/C	0-0.4V	0V
RGB	1-3V	4.9V

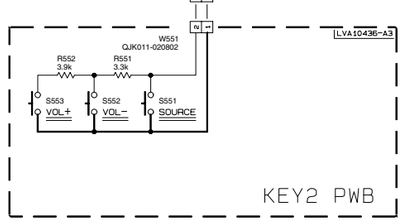
SHEET 3/6

■ FL display section







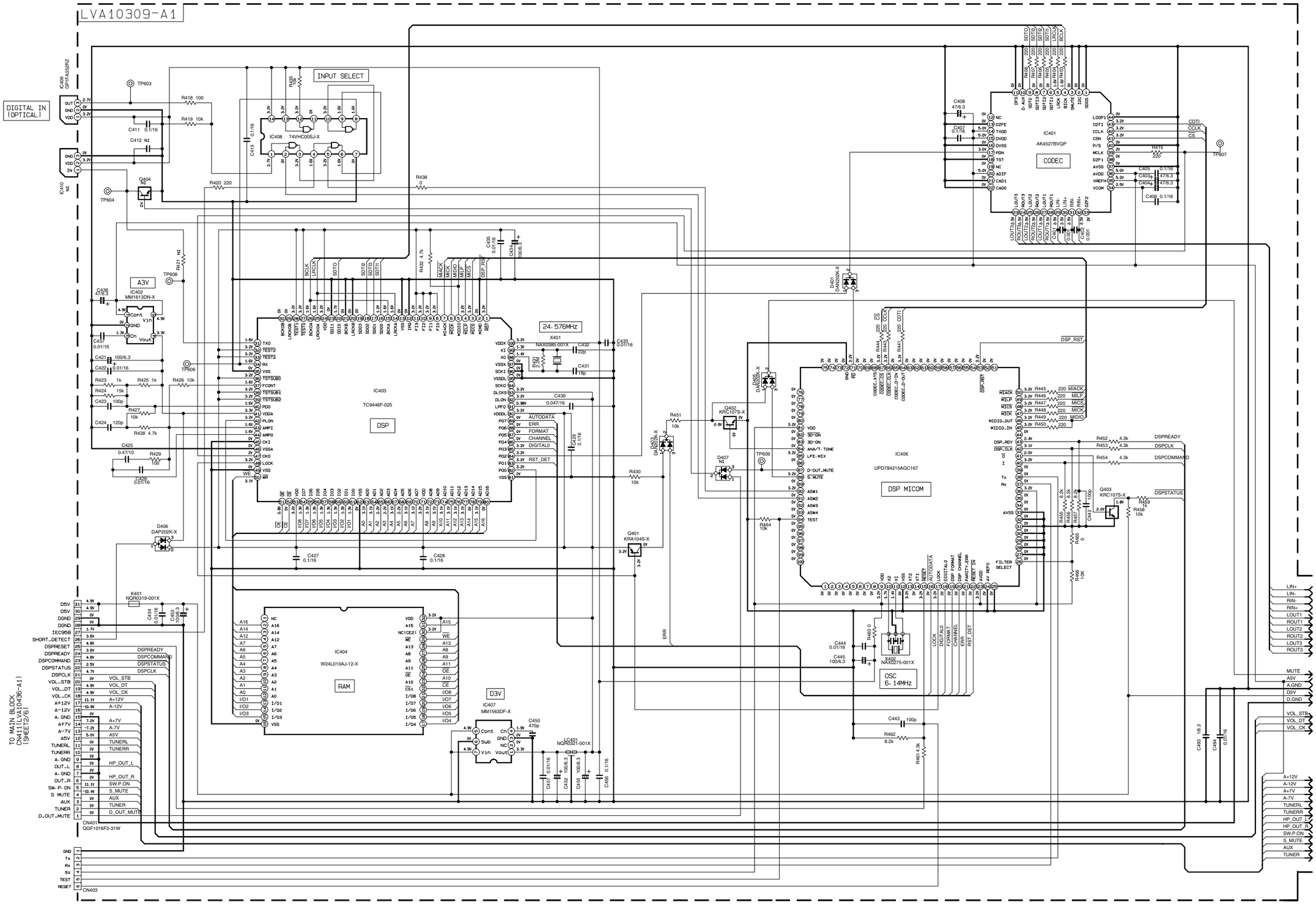


PARTS LIST

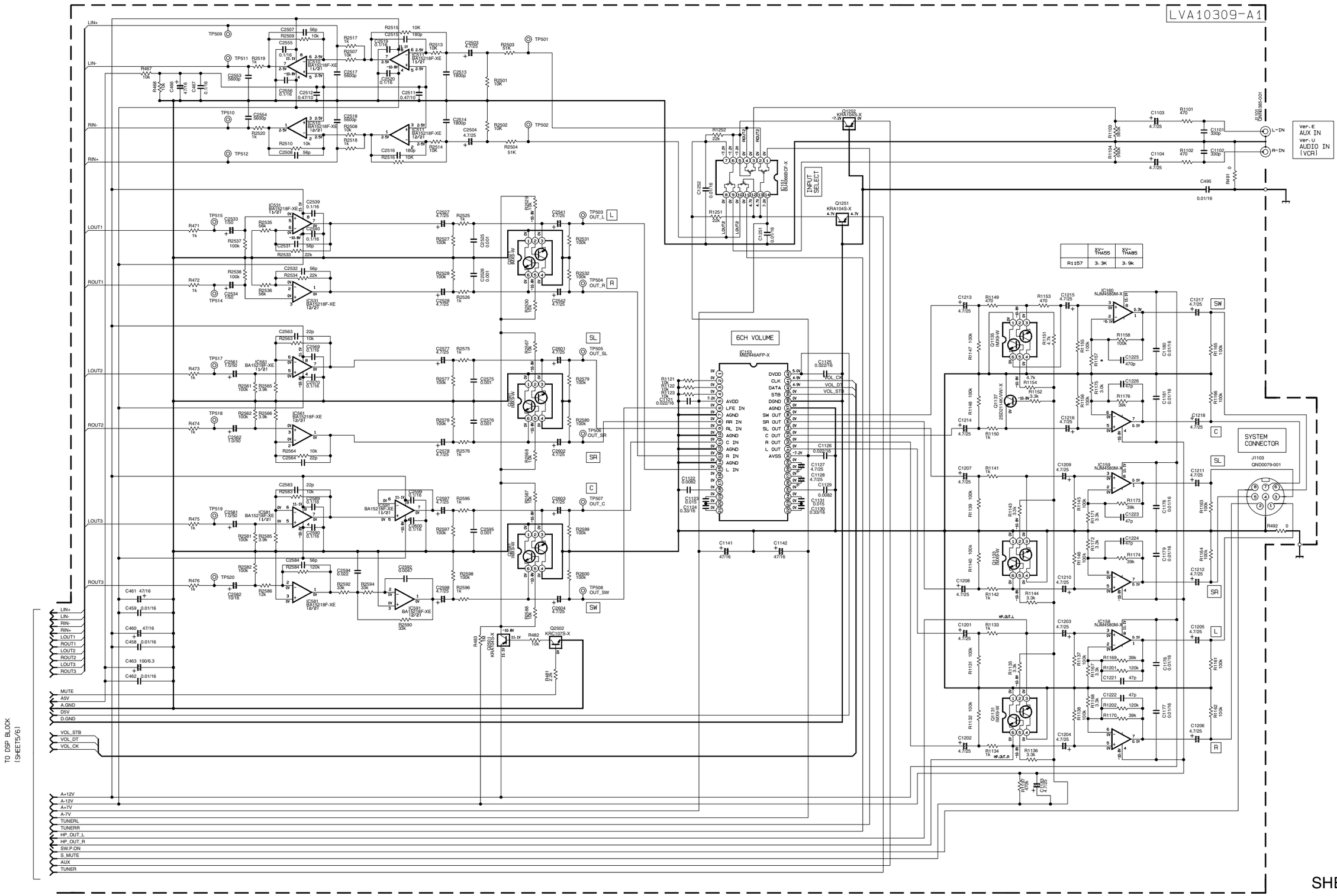
Q501·Q502	KRC102S-X
Q511	KRC102M-T
Q521	KRC111M-T
D511	SELU2E10C-P
S551-S553 S561-S565 S571	QSW0683-001Z
J571	QNS0177-001
K571-K573	NQR0007-002X
K574	NRSA63J-0R0X
D581	SLR-342VC-T

SHEET 4/6

■ DSP section


LVA10309-A1
DIGITAL IN (OPTICAL)
IC409 OPTIA3382
IC410 NI
INPUT SELECT
IC408 74VHC00SJ-X
IC403 TC9446F-025
DSP
24.576MHz
X401 NAX0385-001X
IC404 W24L010AJ-12-X
RAM
IC407 MM1563DF-X
D3V
IC401 AK4527BVQP
CODEC
IC406 UPD784215AGC167
DSP MICOM
X402 NAX0275-001X
OSC 6.14MHz
FILTER SELECT
A3V
IC402 MM1613DN-X
CN401 QGF1016F2-31W
CN403
K401 NQR0319-001X
TO MAIN BLOCK (CN411(LVA1043G-A1) (SHEET2/6)
TO AUDIO BLOCK (SHEET6/6)
SHEET 5/6

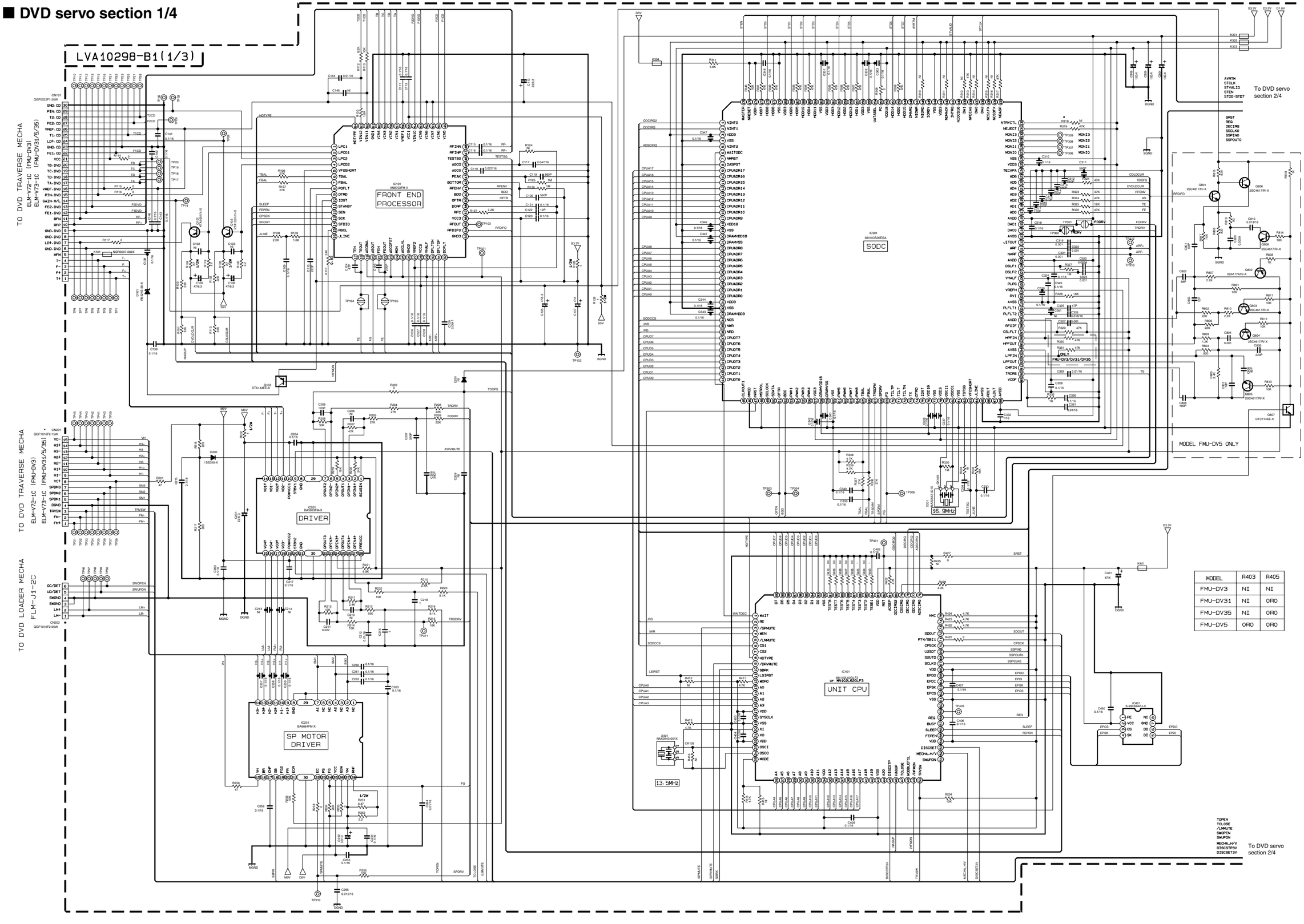
■ Audio input / output section



SHEET 6/6

<DVD servo section>

■ DVD servo section 1/4



MODEL	R403	R405
FMU-DV3	NI	NI
FMU-DV31	NI	ORO
FMU-DV35	NI	ORO
FMU-DV5	ORO	ORO

■ DVD servo section 2/4

LVA10298-B1(2/3)

To DVD servo section 1/4

To DVD servo section 3/4

To DVD servo section 3/4

To DVD servo section 3/4

To DVD servo section 3/4

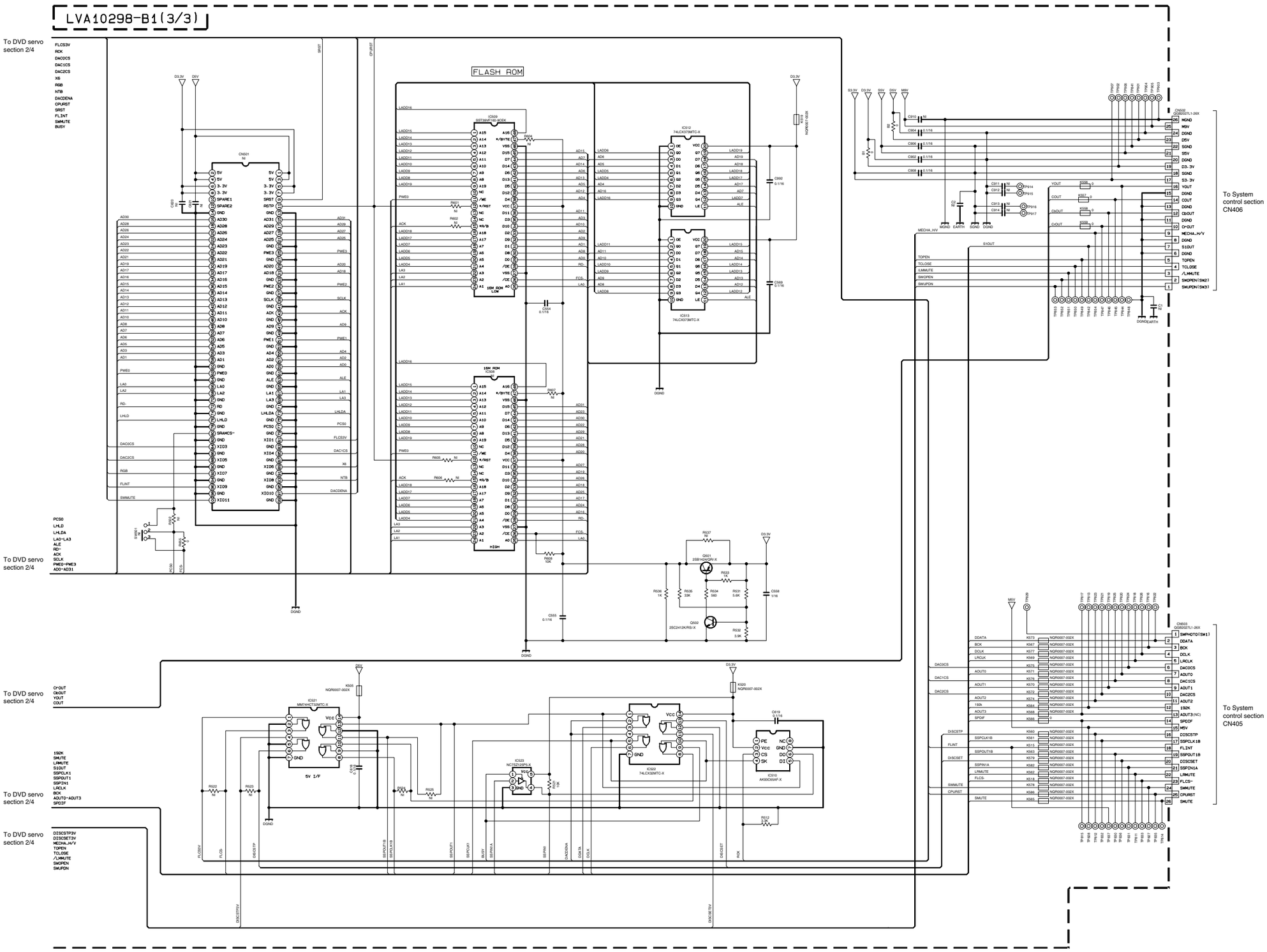
To DVD servo section 1/4

PANTERA-2

FMU-DV3/DV31/DV35 NDV8601VWA-BB

FMU-DV5 NDV8611VWA

■ DVD servo section 3/4



■ DVD servo section 4/4 (Voltage value)

IC101

NO	DC(V)	NO	DC(V)
1	0V	51	2.1V
2	4.4V	52	2.1V
3	3.7V	53	2.1V
4	4.4V	54	2.1V
5	0V	55	4.9V
6	1.7V	56	2.1V
7	1.7V	57	2.1V
8	1.9V	58	2.1V
9	3.3V	59	2.1V
10	0V	60	2.1V
11	3.3V	61	0V
12	3.3V	62	2.1V
13	3.3V	63	2.1V
14	3.3V	64	0V
15	0V		
16	1.7V		
17	1.5V		
18	1.7V		
19	1.7V		
20	0V		
21	1.7V		
22	0V		
23	1.7V		
24	0.9V		
25	1.7V		
26	0V		
27	0V		
28	4.9V		
29	1.7V		
30	0V		
31	0V		
32	0V		
33	0V		
34	0V		
35	0.9V		
36	3.3V		
37	1.3V		
38	0.9V		
39	3.3V		
40	3.3V		
41	1.7V		
42	1.7V		
43	1.7V		
44	1.0V		
45	1.7V		
46	2.1V		
47	2.1V		
48	2.1V		
49	2.1V		
50	2.1V		

IC201

NO	DC(V)
1	1.7V
2	1.7V
3	1.7V
4	1.7V
5	1.7V
6	1.7V
7	1.7V
8	0V
9	3.2V
10	5.0V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	4.3V
16	4.3V
17	4.3V
18	4.3V
19	9.2V
20	0V
21	0V
22	1.7V
23	1.7V
24	1.7V
25	0V
26	0V
27	1.7V
28	9.2V
29	1.7V
30	9.2V

IC251

NO	DC(V)
1	0.8V
2	0.8V
3	0.8V
4	0.8V
5	0V
6	0V
7	0.8V
8	0V
9	5.0V
10	5.0V
11	5.0V
12	5.0V
13	5.0V
14	5.0V
15	0V
16	0V
17	0V
18	0V
19	5.0V
20	5.0V
21	1.67V
22	1.67V
23	0V
24	3.3V
25	5.0V
26	0V
27	9.2V
28	9.2V
29	0V
30	0V

IC301

NO	DC(V)	NO	DC(V)	NO	DC(V)	NO	DC(V)
1	0V	51	3.3V	101	0.7V	151	0V
2	2.9V	52	3.3V	102	0V	152	1.7V
3	3.3V	53	——	103	1.4V	153	0V
4	0V	54	——	104	2.1V	154	1.7V
5	3.3V	55	——	105	——	155	0V
6	3.3V	56	——	106	1.7V	156	3.3V
7	——	57	3.3V	107	0.7V	157	0V
8	0V	58	1.7V	108	0.7V	158	0V
9	0V	59	0V	109	3.3V	159	0V
10	0V	60	0V	110	1.7V	160	0V
11	3.3V	61	——	111	1.7V	161	0V
12	3.3V	62	——	112	0V	162	3.3V
13	3.3V	63	——	113	0V	163	0V
14	0V	64	——	114	1.7V	164	0V
15	1.4V	65	1.7V	115	1.7V	165	0V
16	0.3V	66	1.7V	116	3.3V	166	0V
17	1.4V	67	1.7V	117	1.7V	167	0V
18	1.7V	68	1.7V	118	1.7V	168	0V
19	0V	69	3.3V	119	1.7V	169	3.3V
20	1.7V	70	——	120	1.7V	170	0V
21	0V	71	——	121	2.1V	171	0V
22	2.2V	72	——	122	1.7V	172	3.3V
23	2.2V	73	——	123	2.1V	173	0V
24	1.7V	74	——	124	——	174	4.9V
25	1.5V	75	——	125	3.3V	175	4.9V
26	1.5V	76	1.7V	126	0V	176	3.3V
27	1.5V	77	0V	127	0V		
28	1.5V	78	3.3V	128	0V		
29	1.5V	79	1.7V	129	0V		
30	0.5V	80	——	130	0V		
31	3.3V	81	0V	131	3.3V		
32	0V	82	0.8V	132	0V		
33	3.3V	83	2.1V	133	0V		
34	3.3V	84	1.7V	134	0V		
35	3.3V	85	0V	135	0V		
36	3.3V	86	——	136	1.7V		
37	0V	87	——	137	3.3V		
38	0V	88	3.3V	138	0V		
39	0V	89	0V	139	3.3V		
40	0V	90	1.7V	140	0V		
41	0V	91	——	141	0V		
42	0V	92	——	142	0V		
43	1.0V	93	1.7V	143	3.3V		
44	0V	94	0V	144	0V		
45	——	95	——	145	——		
46	0V	96	1.7V	146	1.7V		
47	3.3V	97	1.7V	147	3.3V		
48	0V	98	——	148	——		
49	——	99	3.3V	149	0V		
50	——	100	0.7V	150	0V		

IC401

NO	DC(V)	NO	DC(V)
1	3.3V	51	——
2	3.3V	52	0V
3	0V	53	3.3V
4	3.3V	54	3.3V
5	——	55	3.3V
6	3.3V	56	3.3V
7	——	57	——
8	0V	58	3.3V
9	3.3V	59	0V
10	0V	60	——
11	3.3V	61	0V
12	3.3V	62	0V
13	1.5V	63	0V
14	1.5V	64	0V
15	1.5V	65	0V
16	1.5V	66	3.3V
17	3.3V	67	3.3V
18	——	68	0V
19	0V	69	3.3V
20	0V	70	3.3V
21	——	71	0V
22	3.3V	72	3.3V
23	1.7V	73	3.3V
24	1.7V	74	3.3V
25	5.0V	75	3.3V
26	3.3V	76	3.3V
27	0V	77	0V
28	3.3V	78	0V
29	3.3V	79	0V
30	3.3V	80	0V
31	3.3V	81	3.3V
32	0V	82	3.3V
33	3.3V	83	3.3V
34	3.3V	84	3.3V
35	0V	85	3.3V
36	3.3V	86	3.3V
37	3.3V	87	3.3V
38	3.3V	88	3.3V
39	0V	89	3.3V
40	0V	90	3.3V
41	——	91	3.3V
42	——	92	0V
43	0V	93	0V
44	——	94	0V
45	3.3V	95	0V
46	0V	96	0V
47	0V	97	0V
48	3.3V	98	0V
49	3.3V	99	0V
50	3.3V	100	0V

IC451

NO	DC(V)
1	0V
2	3.2V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V

IC501

NO	DC(V)	NO	DC(V)	NO	DC(V)	NO	DC(V)	NO	DC(V)
1	3.2V	53	3.2V	105	0V	157	0V	209	0V
2	0.5V	54	0.4V	106	0V	158	0V	210	3.2V
3	0.4V	55	0.4V	107	3.2V	159	1.7V	211	0V
4	1.8V	56	0.4V	108	1.7V	160	1.7V	212	1.7V
5	0.4V	57	0V	109	0V	161	3.2V	213	3.2V
6	0V	58	0.4V	110	0V	162	0V	214	3.2V
7	0.4V	59	0.4V	111	1.0V	163	0V	215	0V
8	0.4V	60	0.4V	112	1.0V	164	0V	216	0V
9	0V	61	0.5V	113	3.1V	165	0V	217	3.2V
10	3.2V	62	3.2V	114	0.4V	166	0V	218	0V
11	0V	63	0.5V	115	0.4V	167	0V	219	3.2V
12	0V	64	3.2V	116	——	168	0V	220	3.2V
13	0V	65	1.0V	117	3.1V	169	3.2V	221	0V
14	0V	66	——	118	0.8V	170	3.2V	222	3.2V
15	2.0V	67	0V	119	1.3V	171	0V	223	3.2V
16	1.3V	68	1.7V	120	1.8V	172	0V	224	3.2V
17	0V	69	0V	121	0V	173	0V	225	0V
18	0.4V	70	3.2V	122	0V	174	0V	226	0V
19	3.2V	71	0V	123	0V	175	0V	227	0.8V
20	1.4V	72	0V	124	0V	176	0V	228	0V
21	1.7V	73	0V	125	3.2V	177	0V	229	0.8V
22	1.7V	74	0V	126	0V	178	0V	230	0V
23	0V	75	3.2V	127	0V	179	0V	231	0.8V
24	3.2V	76	——	128	0V	180	0V	232	0.6V
25	0.5V	77	1.7V	129	0V	181	3.2V	233	3.2V
26	2.5V	78	1.7V	130	0V	182	3.2V	234	0.6V
27	3.2V	79	1.7V	131	0V	183	0V	235	0.8V
28	1.2V	80	0V	132	0V	184	0V	236	1.0V
29	0V	81	0V	133	0V	185	3.2V	237	0V
30	0V	82	0V	134	0V	186	0V	238	0.4V
31	0V	83	3.2V	135	1.8V	187	0V	239	0.8V
32	2.0V	84	0.4V	136	0V	188	0V	240	0.8V
33	1.3V	85	0V	137	0V	189	3.2V		
34	1.7V	86	3.2V	138	0V	190	0V		
35	2.2V	87	0V	139	0V	191	0V		
36	3.1V	88	1.7V	140	3.2V	192	1.7V		
37	3.2V	89	0V	141	0V	193	3.2V		
38	0V	90	0V	142	0V	194	3.2V		
39	3.2V	91	1.2V	143	0V	195	0V		
40	0V	92	0V	144	0V	196	3.2V		
41	0V	93	0V	145	3.2V	197	3.2V		
42	0V	94	0.6V	146	0V	198	3.2V		
43	0.7V	95	0V	147	0V	199	3.2V		
44	3.2V	96	0V	148	0V	200	3.2V		
45	0.7V	97	0V	149	0V	201	0V		
46	0.5V	98	1.7V	150	0V	202	3.2V		
47	0V	99	——	151	0V	203	3.2V		
48	0.5V	100	——	152	0V	204	0V		
49	0V	101	1.7V	153	0V	205	4.9V		
50	0.4V	102	3.2V	154	3.2V	206	3.2V		
51	0.4V	103	0V	155	0V	207	0V		
52	0.4V	104	0V	156	3.2V	208	3.2V		

IC502

NO	DC(V)
1	1.5V
2	3.3V
3	1.7V
4	0V
5	1.7V
6	1.7V
7	1.7V
8	1.7V

IC505

NO	DC(V)	NO	DC(V)
1	3.2V	51	0.5V
2	0.8V	52	0V
3	3.2V	53	0.5V
4	0.8V	54	0.7V
5	0.8V	55	3.2V
6	0V	56	0.7V
7	0.6V	57	0.6V
8	0.6V	58	0V
9	3.2V	59	0V
10	0.8V	60	1.7V
11	1.0V	61	1.4V
12	0V	62	0.4V
13	0.4V	63	1.3V
14	——	64	1.3V
15	3.2V	65	2.0V
16	0V	66	0V
17	3.2V	67	3.2V
18	0V	68	1.7V
19	3.2V	69	——
20	2.2V	70	——
21	——	71	0V
22	2.0V	72	0V
23	1.3V	73	——
24	0V	74	0V
25	1.2V	75	3.2V
26	2.5V	76	0.4V
27	0.5V	77	0.4V
28	1.0V	78	0V
29	3.2V	79	0V
30	——	80	0.4V
31	0.4V	81	3.2V
32	0V	82	0.5V
33	0.4V	83	0.8V
34	0.4V	84	0V
35	3.2V	85	0.8V
36	0.4V	86	0V
37	0.4V	87	
38	0V	88	
39	0.5V	89	
40	0.5V	90	
41	3.2V	91	
42	3.2V	92	
43	3.2V	93	
44	0V	94	
45	0.4V	95	
46	0V	96	
47	0.4V	97	
48	0.4V	98	
49	3.2V	99	
50	0.4V	100	

IC509

NO	DC(V)
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	——
11	3.2V
12	0V
13	——
14	——
15	0V
16	0V
17	0V
18	0V
19	0V
20	0V
21	0V
22	0V
23	0V
24	3.2V
25	0V
26	3.2V
27	0V
28	3.2V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	0V
37	3.2V
38	0V
39	0V
40	0V
41	0V
42	0V
43	0V
44	0V
45	0V
46	0V
47	0V
48	0V

IC510

NO	DC(V)
1	0V
2	3.2V
3	0V
4	3.2V
5	3.2V
6	3.2V
7	0V
8	0V

IC511

NO	DC(V)
1	0V
2	1.8V
3	3.2V

IC512

NO	DC(V)
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	3.2V

IC513

NO	DC(V)
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	3.2V

IC521

NO	DC(V)
1	3.2V
2	0V
3	5.0V
4	3.2V
5	0V
6	5.0V
7	0V
8	5.0V
9	0V
10	3.2V
11	5.0V
12	0V
13	3.2V
14	5.0V

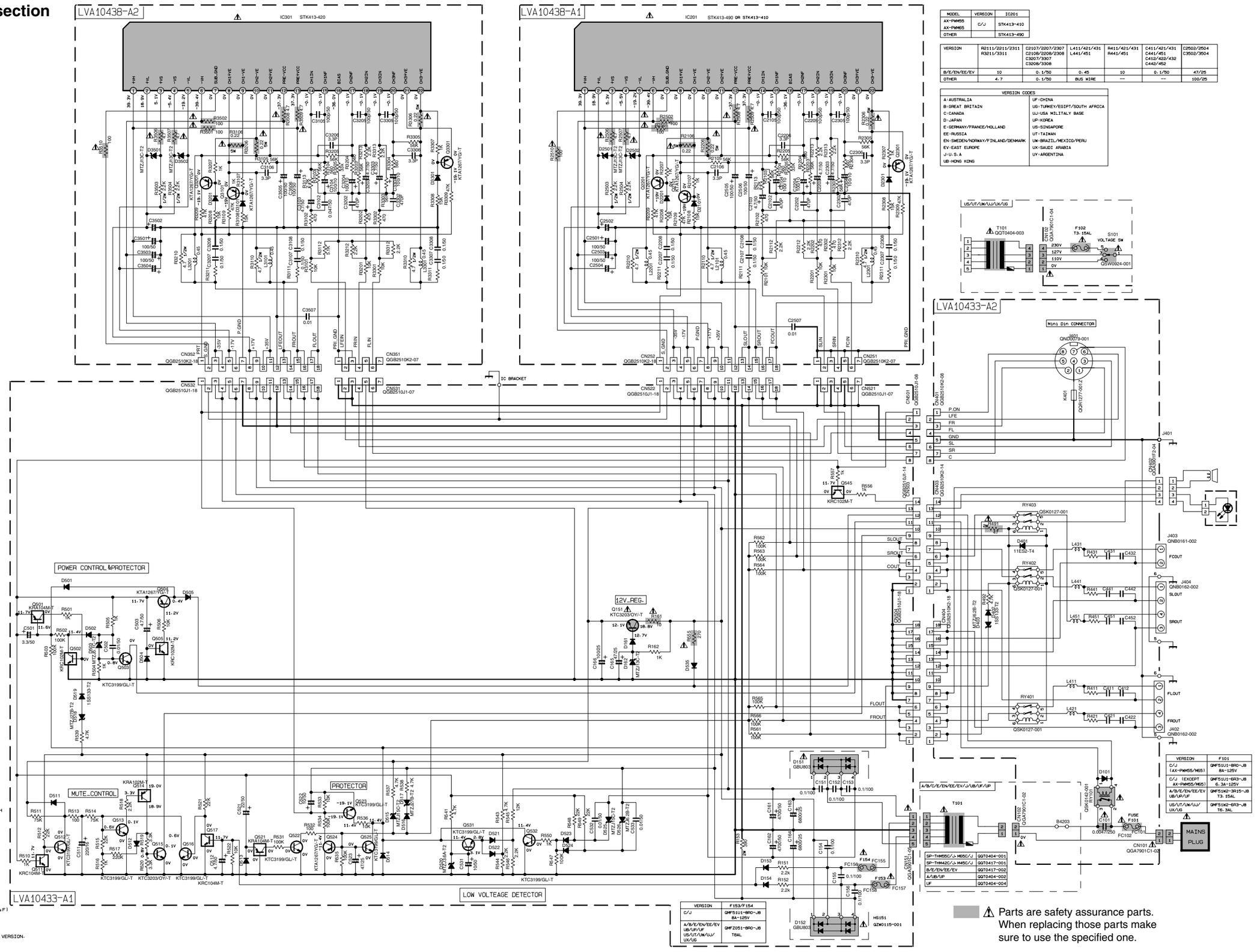
IC522

NO	DC(V)
1	3.2V
2	3.2V
3	3.2V
4	3.2V
5	3.2V
6	3.2V
7	0V
8	0V
9	3.2V
10	3.2V
11	3.2V
12	0V
13	5.0V
14	3.2V

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- POWER ON DVD STOP

<SP-PWA85 subwoofer section>

■ Subwoofer section



MODEL	VERSION	IC201
AX-PWM55	C/J	STK413-410
AX-PWM65		
OTHER		STK413-490

VERSION	R2111/2211/2311 R3211/3311	C2107/2207/2307 C2108/2208/2308 C3207/3307 C3208/3308	L411/421/431 L441/451	R411/421/431 R441/451	C411/421/431 C441/451 C412/422/432 C442/452	C2502/2504 C3502/3504
B/E/EN/EE/EV	10	0.1/50	0.45	10	0.1/50	47/25
OTHER	4.7	0.1/50	BUS WIRE	---	---	100/25

VERSION CODES	
A:AUSTRALIA	UF:CHINA
B:GREAT BRITAIN	UG:TURKEY/EGIPT/SOUTH AFRICA
C:CANADA	UJ:USA MILITALY BASE
D:JAPAN	UP:KOREA
E:GERMANY/FRANCE/HOLLAND	US:SINGAPORE
EE:RUSSIA	UT:TAIWAN
EN:SWEDEN/NORWAY/FINLAND/DENMARK	UW:BRAZIL/MEXICO/PERU
EV:EAST EUROPE	UX:SAUDI ARABIA
J:U.S.A	UY:ARGENTINA
UB:HONG KONG	

VERSION	F101
C/J (AX-PWM55/M65)	QMF51U1-8R0-JB 8A-125V
C/J (EXCEPT AX-PWM55/M65)	QMF51U1-6R3-JB 6.3A-125V
A/B/E/EN/EE/EV UB/UP/UF	QMF51K2-3R15-JB T3.15AL
US/UT/UW/UJ/ UX/UG	QMF51K2-6R3-JB T6.3AL

VERSION	F153/F154
C/J	QMF51U1-8R0-JB 8A-125V
A/B/E/EN/EE/EV UB/UP/UF US/UT/UW/UJ/ UX/UG	QMF2051-8R0-JB TBAL

SP-THM55C/J-, M55C/J	QQT0404-001
SP-THM42C/J-, M45C/J	QQT0417-001
B/E/EN/EE/EV	QQT0417-002
A/UB/UP	QQT0404-002
UF	QQT0404-004

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
2. UNLESS OTHERWISE SPECIFIED.
   - ALL RESISTORS ARE 1/4W ±5% CARBON RESISTOR.
   - ALL CAPACITORS ARE 50V CAPACITOR.
   - ALL RESISTANCE VALUES ARE IN OHM(Ω).
   - ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   - ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED VOLTAGE (V).
   - ALL DIODES ARE 1SS133-T2.
3. ※ MARKING ARE USED DIFFERENT VERSION.

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Printed circuit boards

<Main body section>

■ Main board

(Power board)

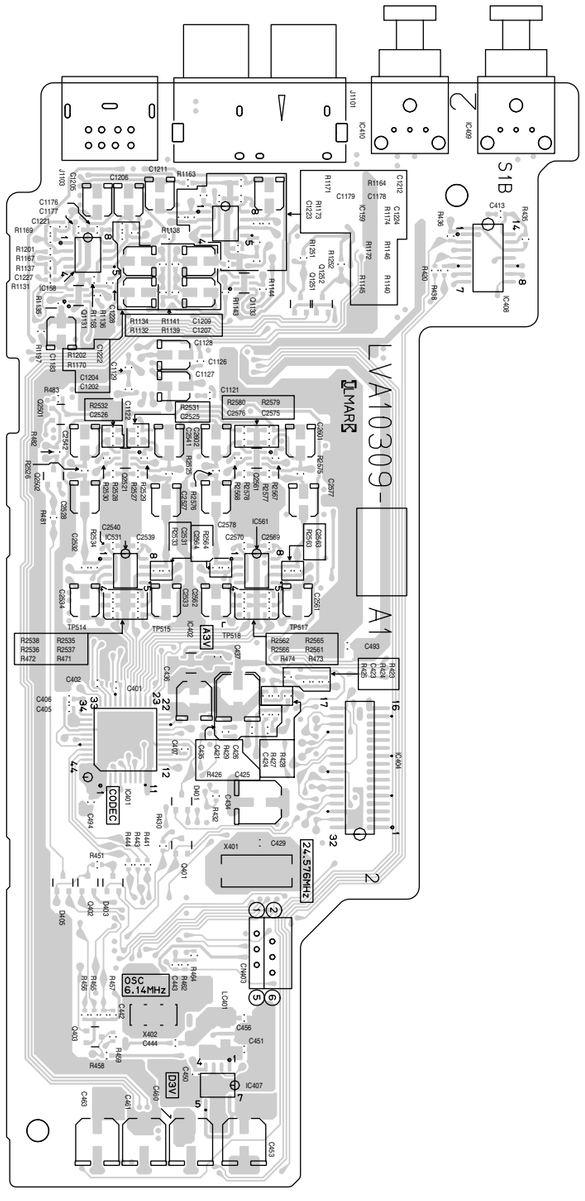
(Main board)

(Volume board)

(Switch board)

■ DSP board

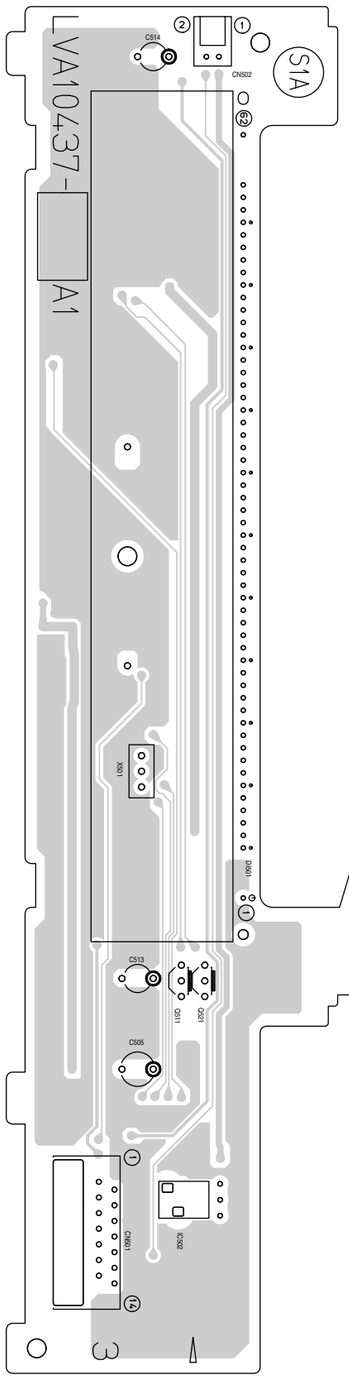
Forward side



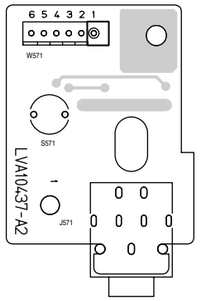
■ Front board

Forward side

(FL board)

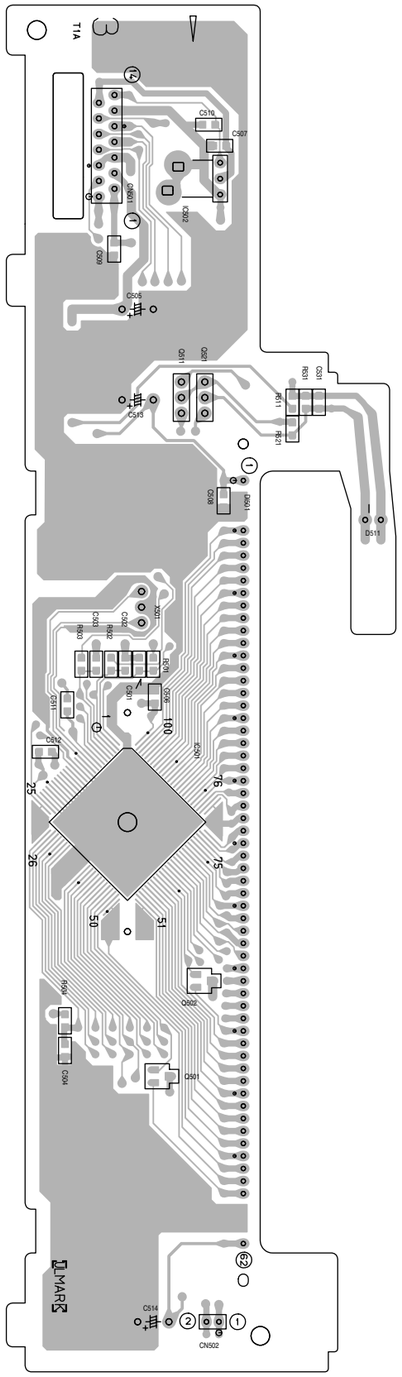


(Head phone board)

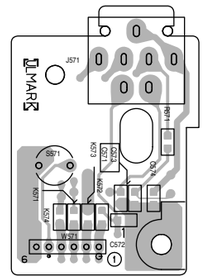


Reverse side

(FL board)



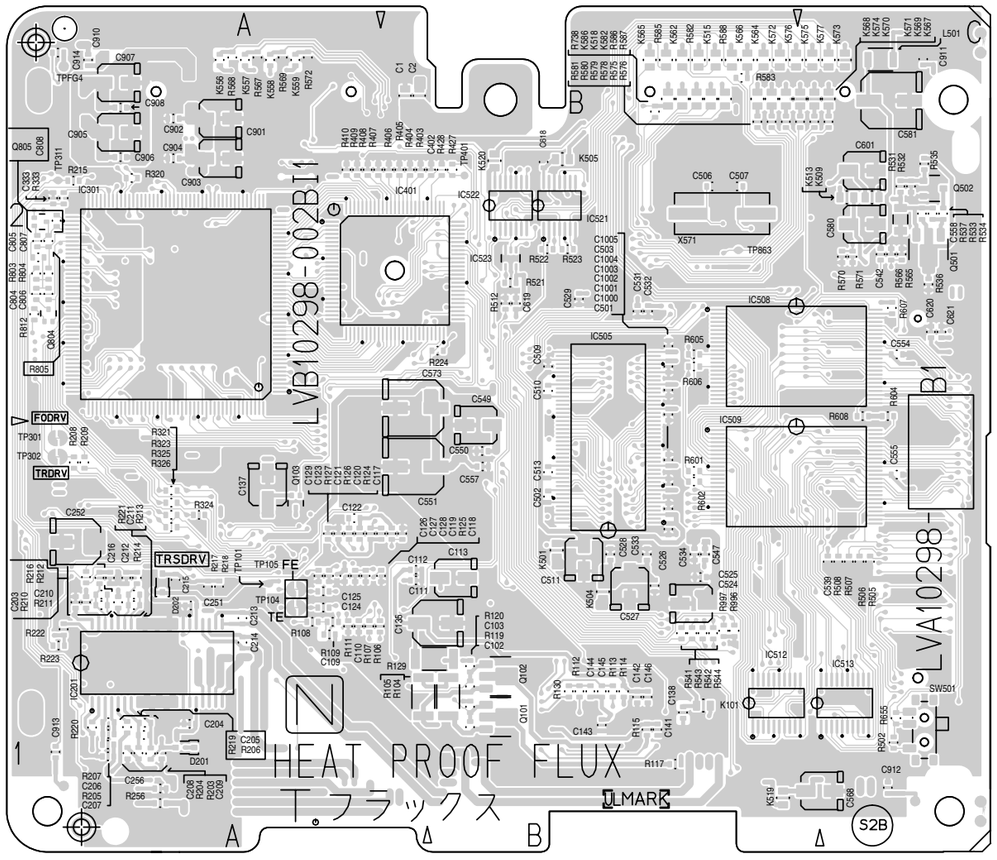
(Head phone board)



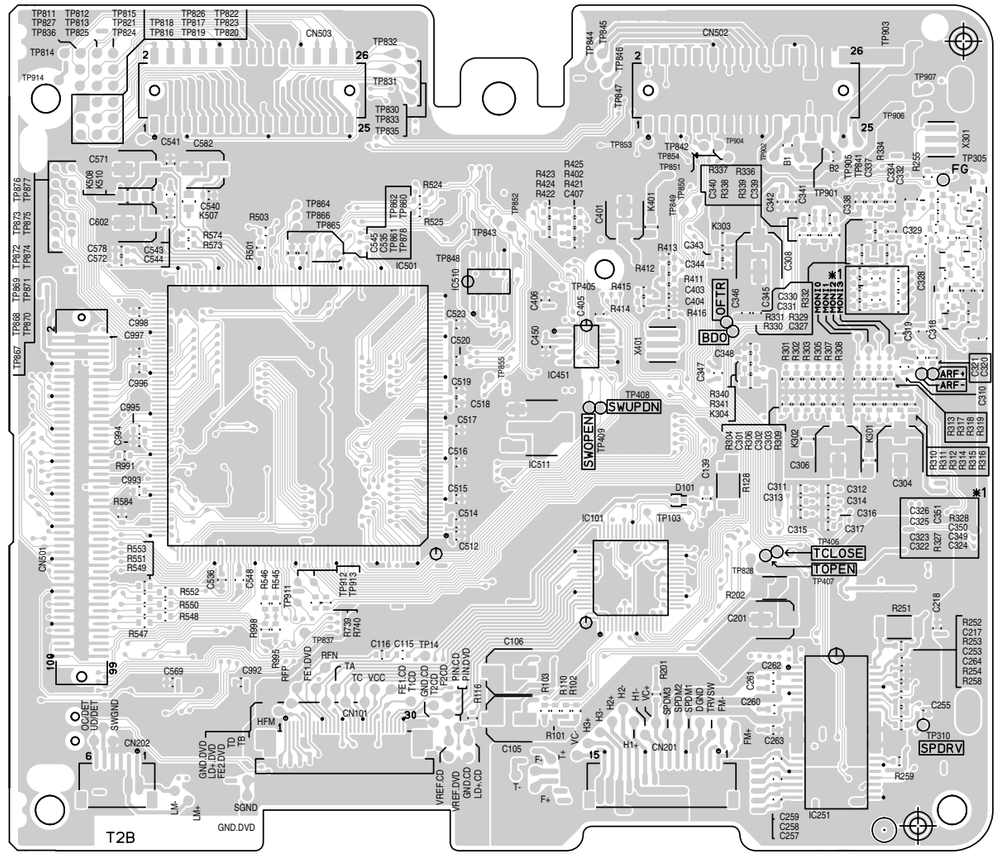
<DVD servo section>

■ DVD servo board

Forward side



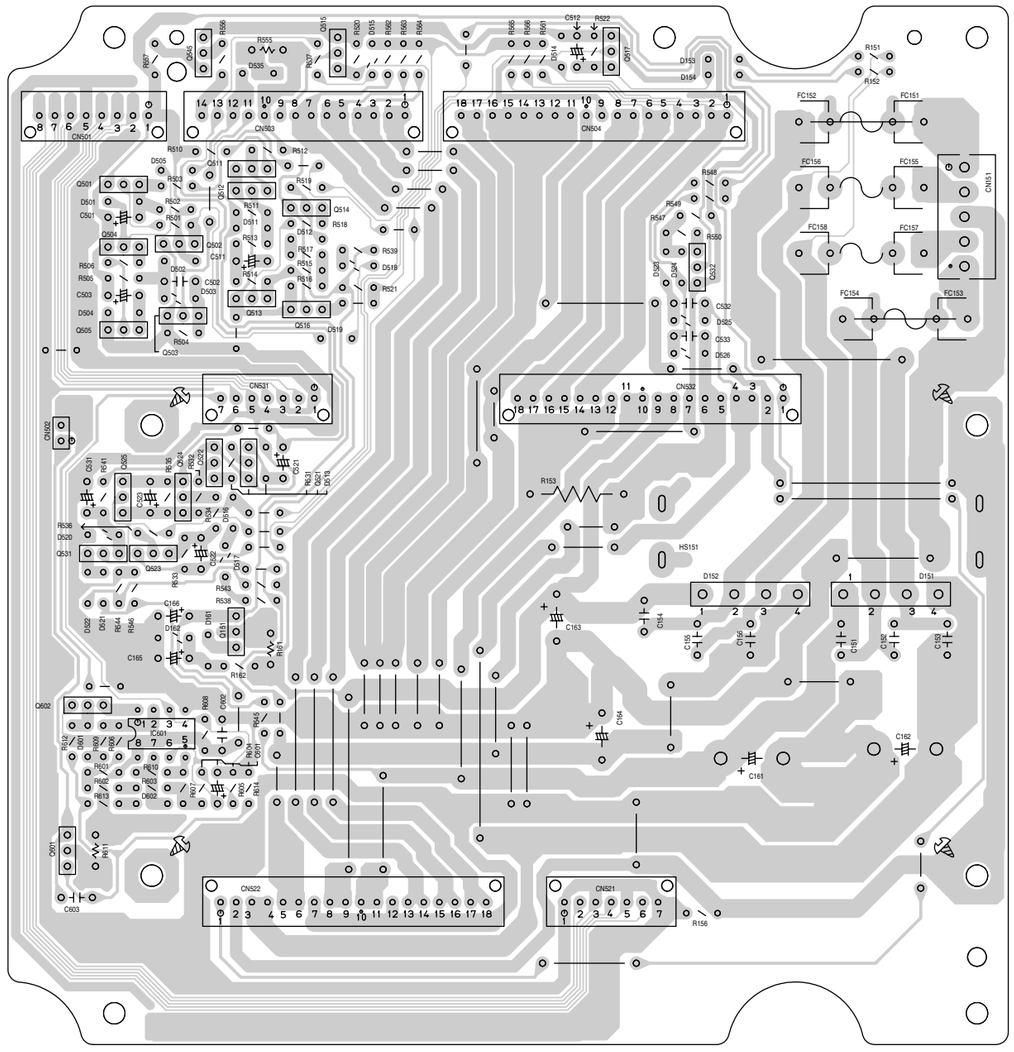
Reverse side



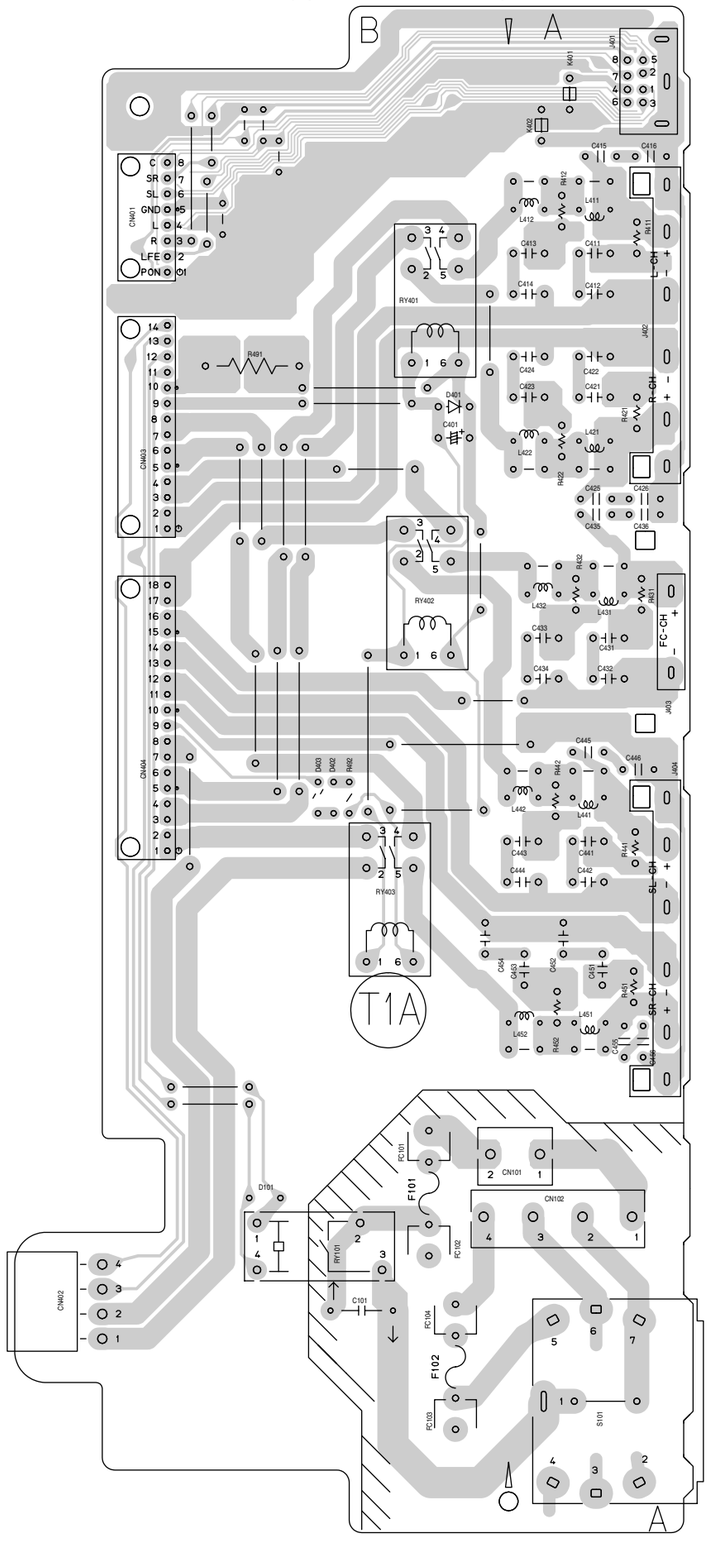
<SP-PWA subwoofer section>

■ Mother board

(Mother board)

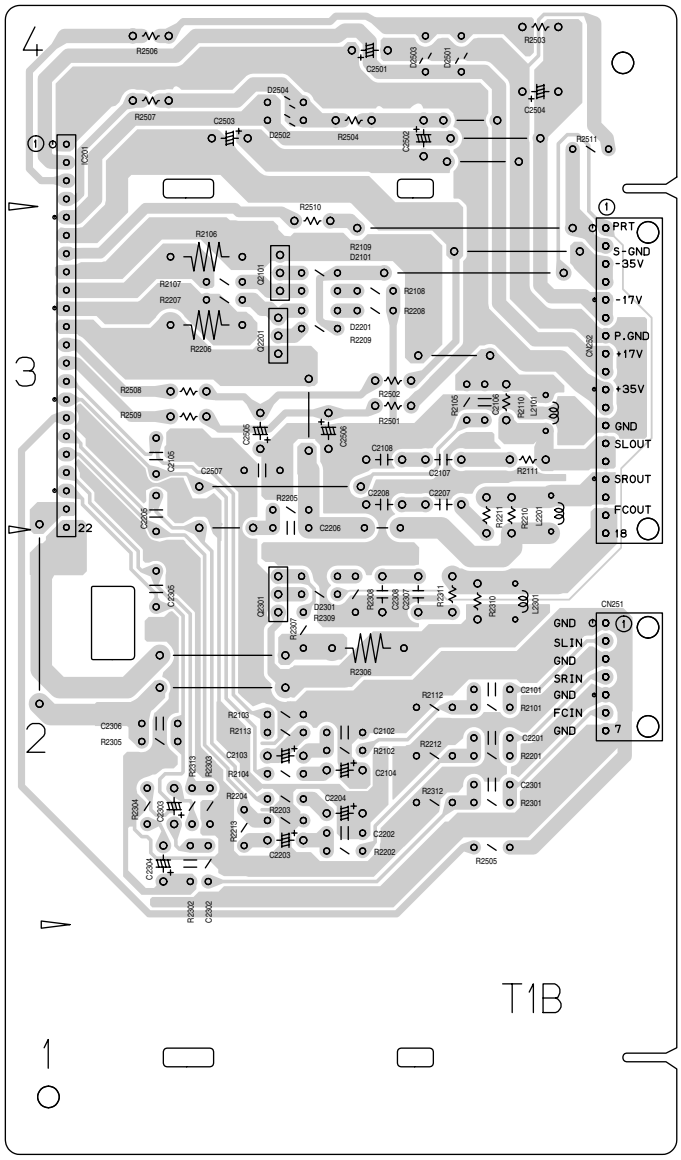


(Speaker terminal board)

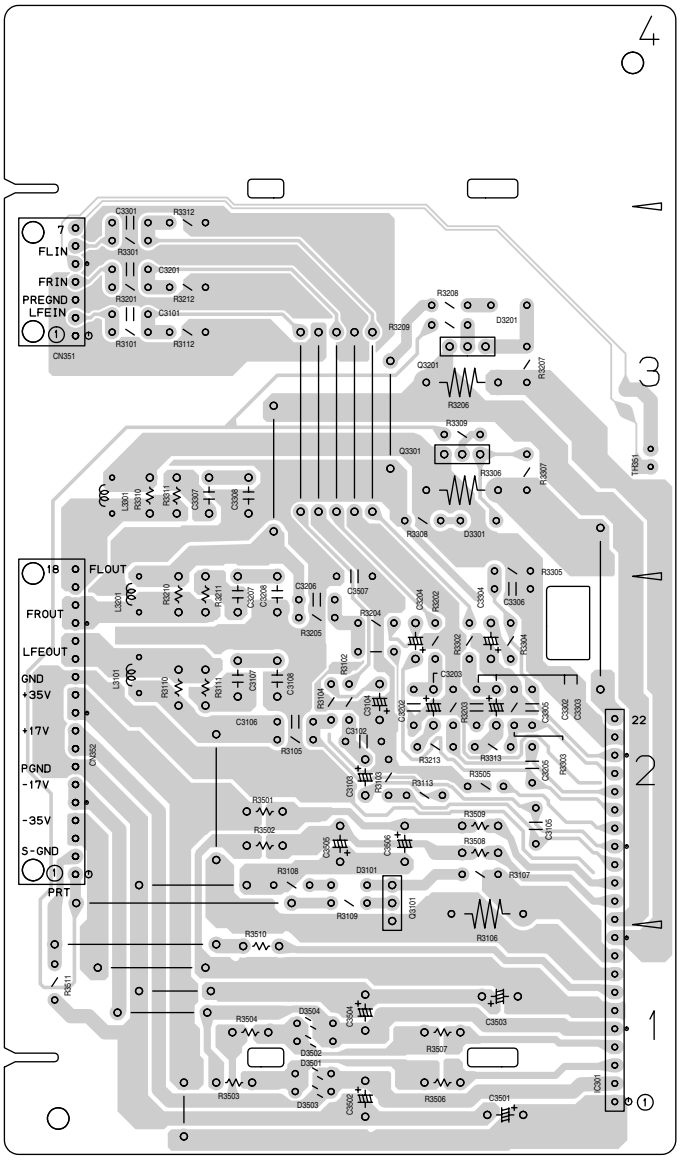


■ Amp. board

(Amplifier board (A))



(Amplifier board (B))



JVC
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB040SCH)

Printed in Japan
WPC

PARTS LIST

[TH-A85]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

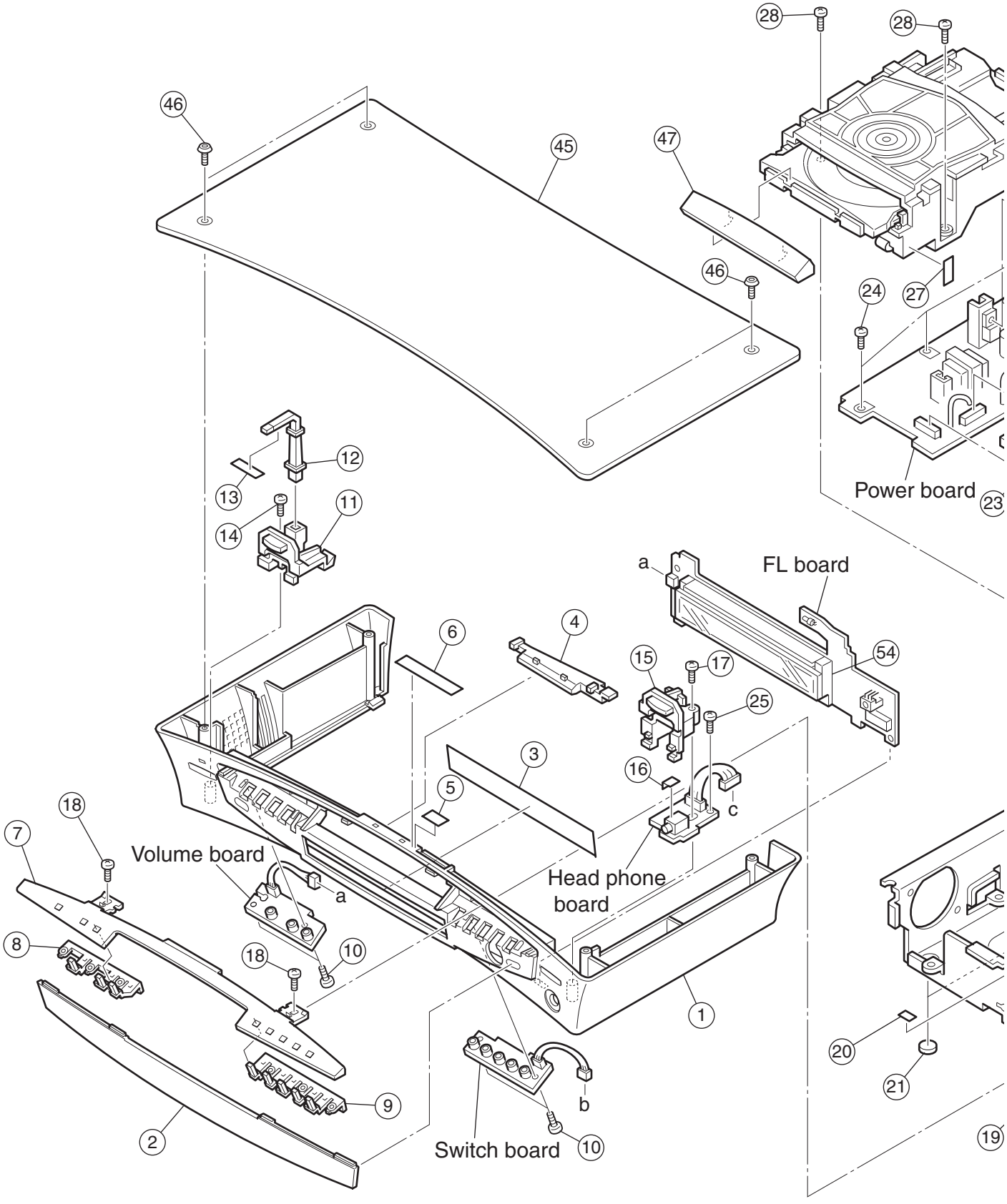
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

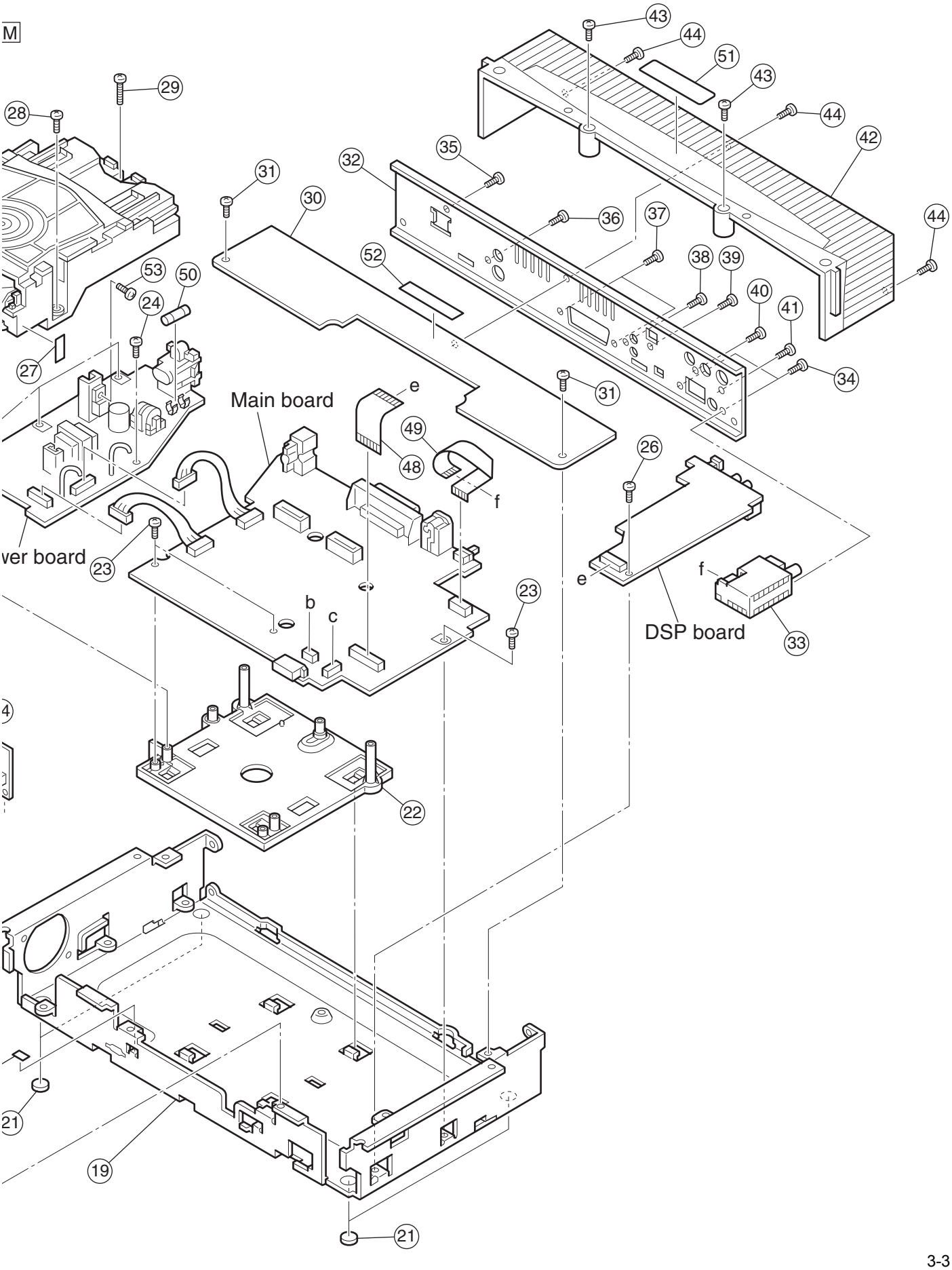
- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
Speaker assembly and parts list (Subwoofer) (Block No.M2) ---------- 3- 5
Speaker assembly and parts list (Front speaker) (Block No.M6) ---------- 3- 7
Speaker assembly and parts list (Center speaker) (Block No.M7) ---------- 3- 8
DVD mechanism assembly and parts list (Block No.MJ) ---------- 3- 9
DVD loading base assembly and parts list (Block No.MN) ---------- 3-11
Electrical parts list (Block No.01~07) ---------- 3-13
Packing materials and accessories parts list (Block No.M3) ---------- 3-26

Exploded view of general assembly and parts list

Block No. M 1 M M




M
Main board
DSP board
ver board

General assembly

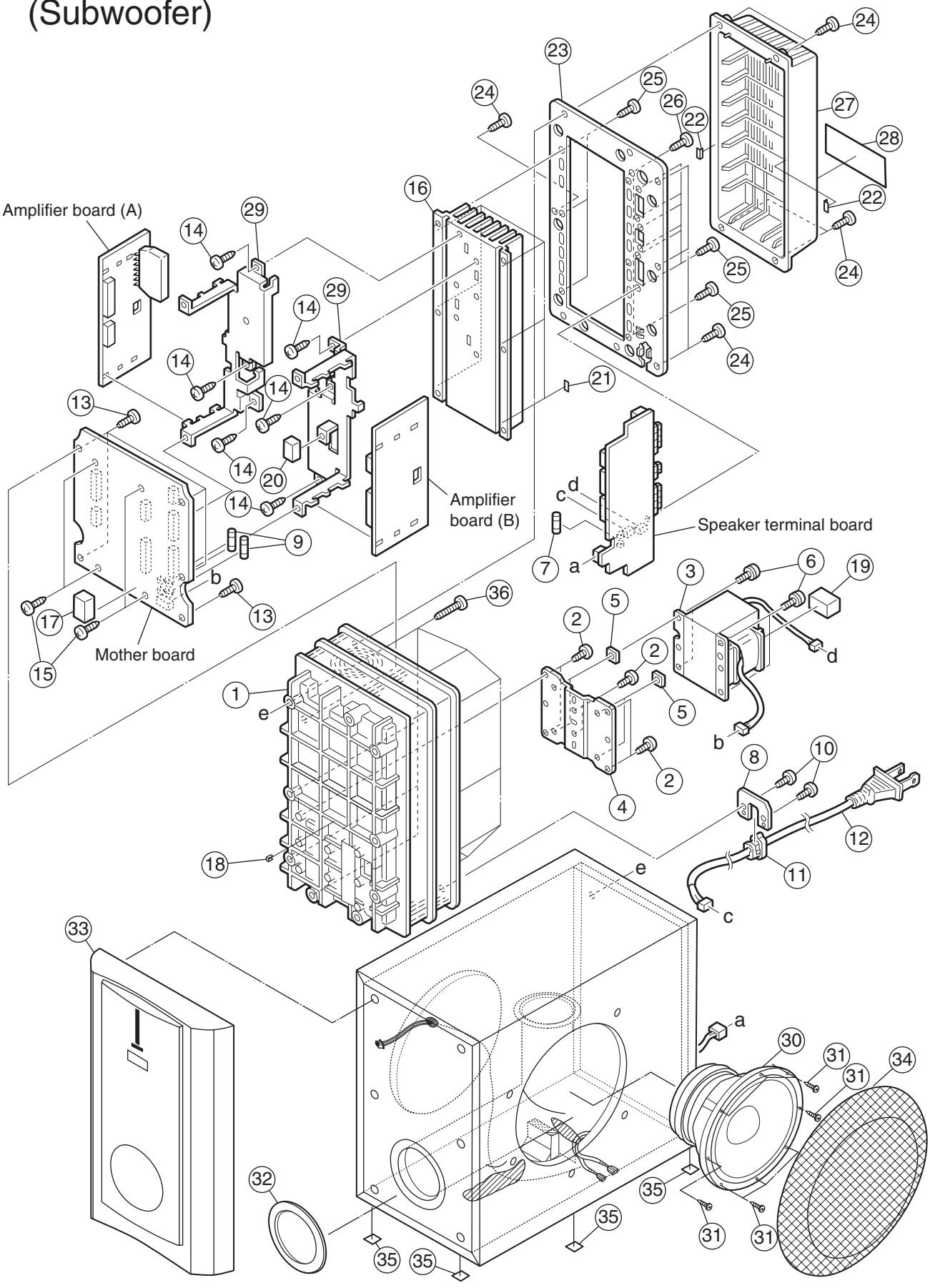
Block No. [M][1][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LV10787-003A	FRAME		
2	LV34217-004A	LENS		
3	LV42851-006A	FL SCREEN		
4	LV34219-003A	LIGHT LENS		
5	LV30225-0F4A	SPACER		
6	LV43610-001A	SPACER		
7	LV21485-003A	FRONT ORNAMENT		
8	LV34213-002A	PUSH BUTTON(L)		
9	LV34214-002A	PUSH BUTTON(R)		
10	QYSBSF2610Z	SCREW	2.6mm x 10mm(x4)	
11	LV34215-002A	P BUTTON(POWER)		
12	LV34220-003A	INDICATOR LENS		
13	VYSA1R4-110	SPACER		
14	QYSBSF2610Z	SCREW	2.6mm x 10mm	
15	LV34216-002A	P BUTTON(EJECT)		
16	LV30225-0Q7A	SPACER		
17	QYSBSF2610Z	SCREW	2.6mm x 10mm	
18	QYSSST3006Z	SCREW	3mm x 6mm(x2)	
19	LV10788-002A	CHASSIS BASE		
20	LV30225-0G9A	SPACER		
21	LV40240-002A	FOOT	(x4)	
22	LV21487-001A	MECHA HOLDER		
23	QYSBSG3008Z	TAPPING SCREW	3mm x 8mm(x3)	
24	QYSBSG3008Z	TAPPING SCREW	3mm x 8mm(x4)	
25	QYSBSG3008Z	TAPPING SCREW	3mm x 8mm	
26	QYSBSG3008Z	TAPPING SCREW	3mm x 8mm	
27	LV30225-0K8A	SPACER		
28	QYSBSF3012Z	TAP SCREW	3.0mm x 12mm(x2)	
29	QYSBST3020Z	TAP SCREW	M3 x 20mm	
30	LV34221-001A	SHIELD		
31	QYSBSG3006E	TAPPING SCREW	3mm x 6mm(x2)	
32	LV21489-013A	REAR PANEL		
33	QAU0278-003	TUNER		
34	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm(x2)	
35	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm	
36	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm	
37	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm(x2)	
38	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm	
39	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm	
40	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm	
41	QYSBSP3006M	SCREW	M3 x 6mm	
42	LV10795-001A	REAR COVER		
43	QYSBSF3010Z	TAP SCREW	3mm x 10mm(x2)	
44	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x3)	
45	LV10789-004A	TOP PANEL		
46	LV42860-002A	SPECIAL SCREW	(x4)	
47	LV21486-002A	TRAY FITTING		
48	QUQ410-3106CJ	FFC WIRE		
49	QUQ412-1110CJ	FFC WIRE		
⚠ 50	QMF51W2-1R6-J8	FUSE	F 901 1.6A AC250V	
51	VND4118-004	CAUTION LABEL		
52	LV41843-002A	LASER CAUTION		
53	QYSBSE3008Z	SCREW	3mm x 8mm	
54	LV34218-001A	FL HOLDER		

Speaker assembly and parts list

(Subwoofer)

Block No. M 2 M M



Speaker (Subwoofer)

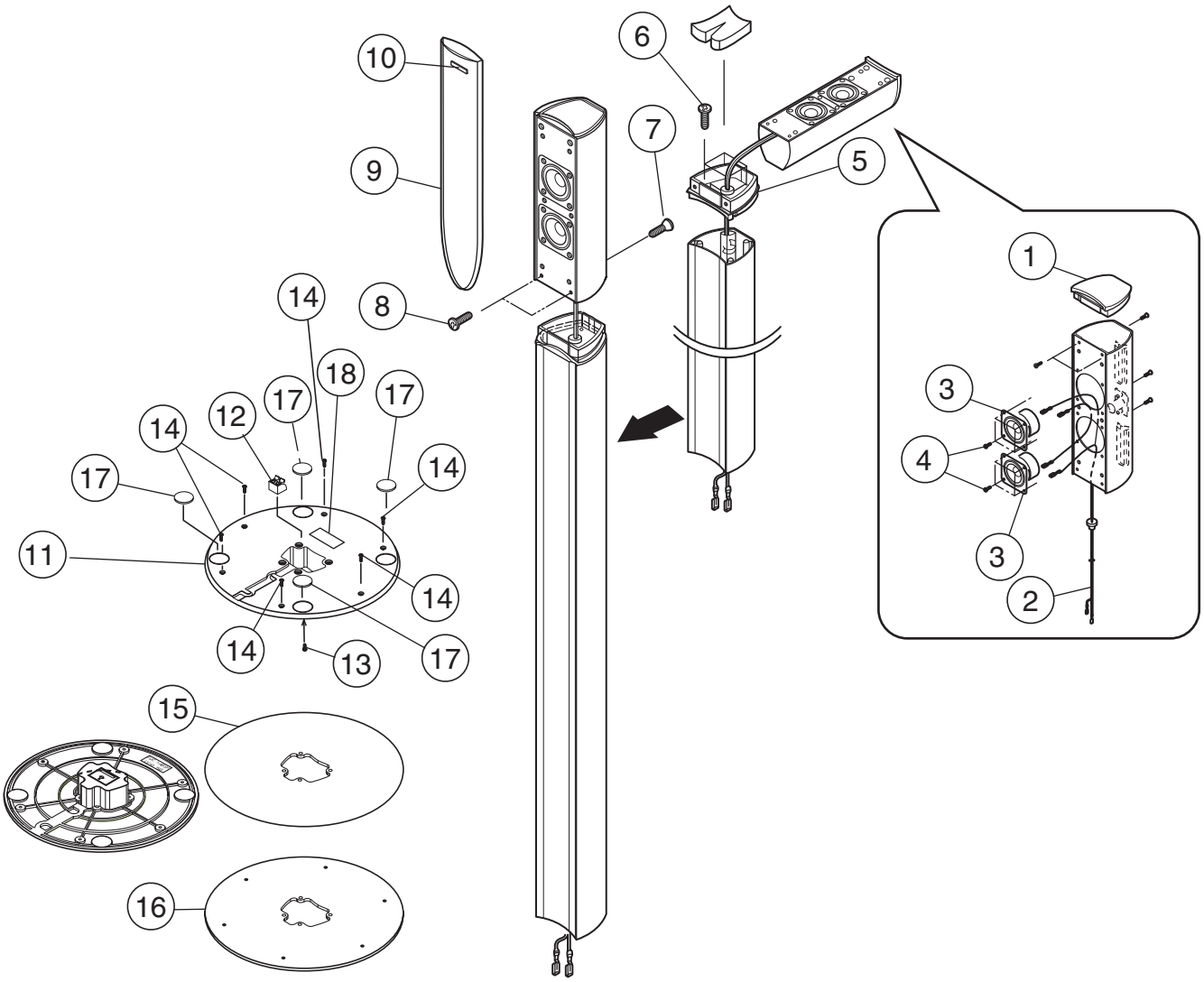
Block No. [M][2][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LV10784-010A	REAR CHASSIS		
2	QYSBSF4010Z	TAP SCREW	M4 x 10mm(x6)	
⚠ 3	QQT0417-002	POWER TRANSF		
4	LV31723-001A	TRANS BRACKET		
5	E406309-002	SPACER	(x4)	
6	QYSDSTL4010E	TAP SCREW	M4 x 10mm(x4)	
⚠ 7	QMF51W2-3R15-J8	FUSE	F 101 3.15A AC250V	
8	LV42032-001A	AC BRACKET		
⚠ 9	QMFZ051-8R0-J8	FUSE	F153 F154 8A(x2)	
10	QYSBSF3010Z	TAP SCREW	3mm x 10mm(x2)	
⚠ 11	QHS3771-108	CORD STOPPER		
⚠ 12	QMPK210-205-JN	POWER CORD(EU)	2.05m BLACK	THA85E, THA85EN
⚠ 12	QMPN150-200-JC	POWER CORD		THA85B
13	QYSBSF3010Z	TAP SCREW	3mm x 10mm(x5)	
14	QYSBSG3008E	TAPPING SCREW	3mm x 8mm(x6)	
15	QYSBSG3008E	TAPPING SCREW	3mm x 8mm(x4)	
⚠ 16	LV21474-001A	HEAT SINK		
17	LV30225-078A	SPACER		
18	LV30225-0N4A	SPACER		
19	LV30225-0N5A	SPACER		
20	LV30225-0N6A	SPACER		
21	LV30225-0N7A	SPACER	(x6)	
22	LV30225-0N7A	SPACER	(x2)	
23	LV21475-006A	REAR PANEL		
24	QYSDSF3012M	TAP SCREW	M3 x 12mm(x8)	
25	QYSBSGY3008E	SPECIAL SCREW	3mm x 8mm(x12)	
26	QYSBSP3006M	SCREW	M3 x 6mm	
27	LV10785-002A	H.S.COVER		
28	LV34268-001A	RATING LABEL		
29	LV34197-003A	IC BRACKET	(x2)	
30	CR200027-01	SPEAKER		
31	7005942502	SCREW	(x8)	
32	2910008601	PACKING		
33	9920002411	BAFFLE ASSY		
34	9920002111	NET ASSY		
35	5600006901	RUBBER FOOT	(x4)	
36	7001542506	SCREW	(x9)	

Speaker assembly and parts list

Block No. M 6 M M

(Front speaker)



Speaker (Front speaker)

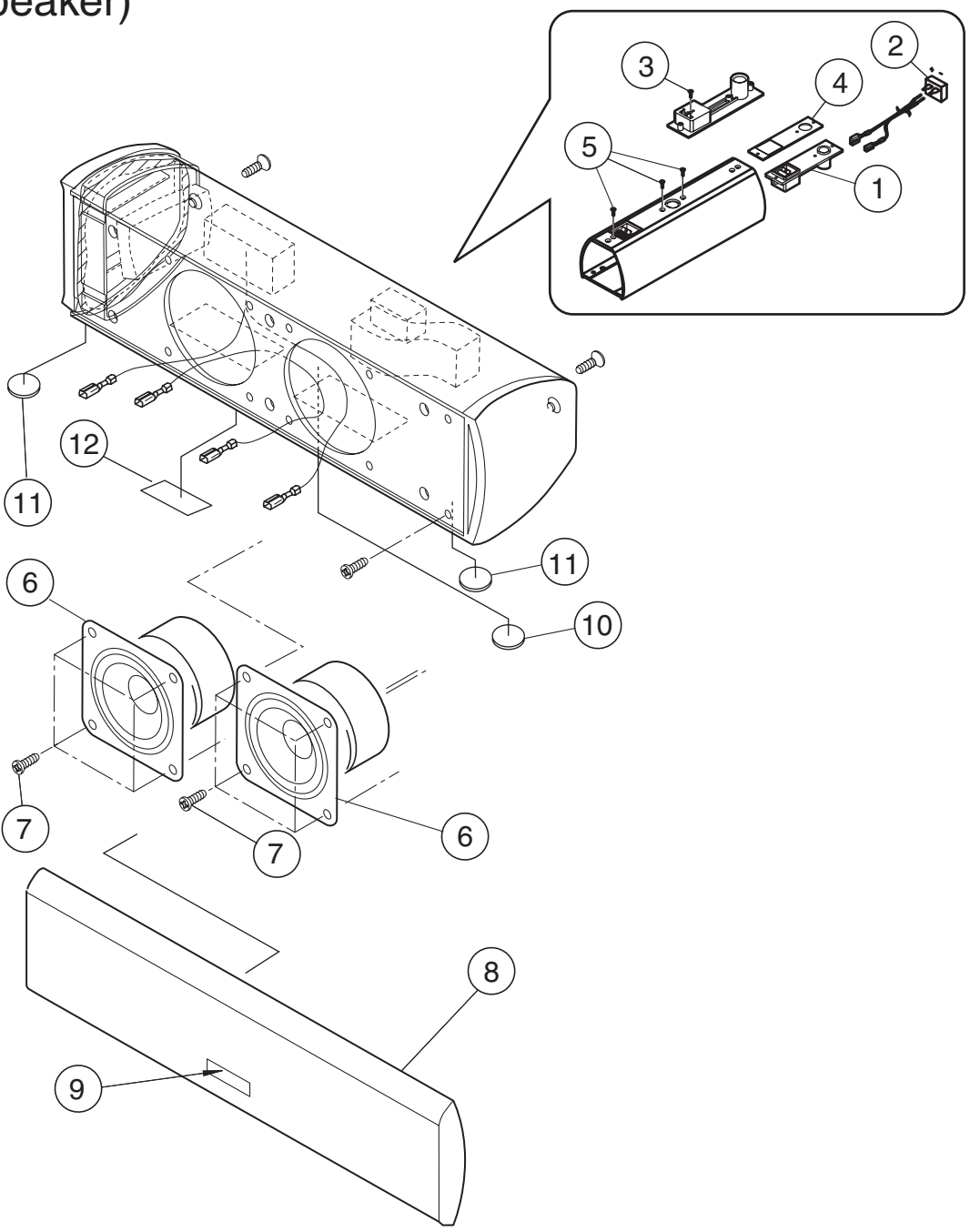
Block No. [M][6][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	5700066201	TOP COVER	(x4)	
2	6100070611	CORD(WITH BUSH)	(x4)	
3	CR050005-01	SPEAKER	(x8)	
4	7007840606	SCREW	(x32)	
5	5700065901	JOINT	LV21494-001A(x4)	
6	7007841001	SCREW	(x16)	
7	7005730806	SCREW	(x4)	
8	7007830606	SCREW	(x8)	
9	9905000601	NET ASSY	LV10792-001A(x4)	
10	5900020901	BADGE	LV43427-001A(x4)	
11	5700066101	SQ RING	(x4)	
12	1030004001	TERMINAL	(x4)	
13	7006930801	SCREW	(x4)	
14	7008730801	SCREW	(x24)	
15	2810006901	SPACER	(x4)	
16	9000009101	STAND BASE	LV21495-001A(x4)	
17	9000009001	FOOT	LV43426-001A(x16)	
18	6000197381	RATING LABEL	(x4)	

Speaker assembly and parts list

(Center speaker)

Block No. M 7 M M



Speaker (Center speaker)

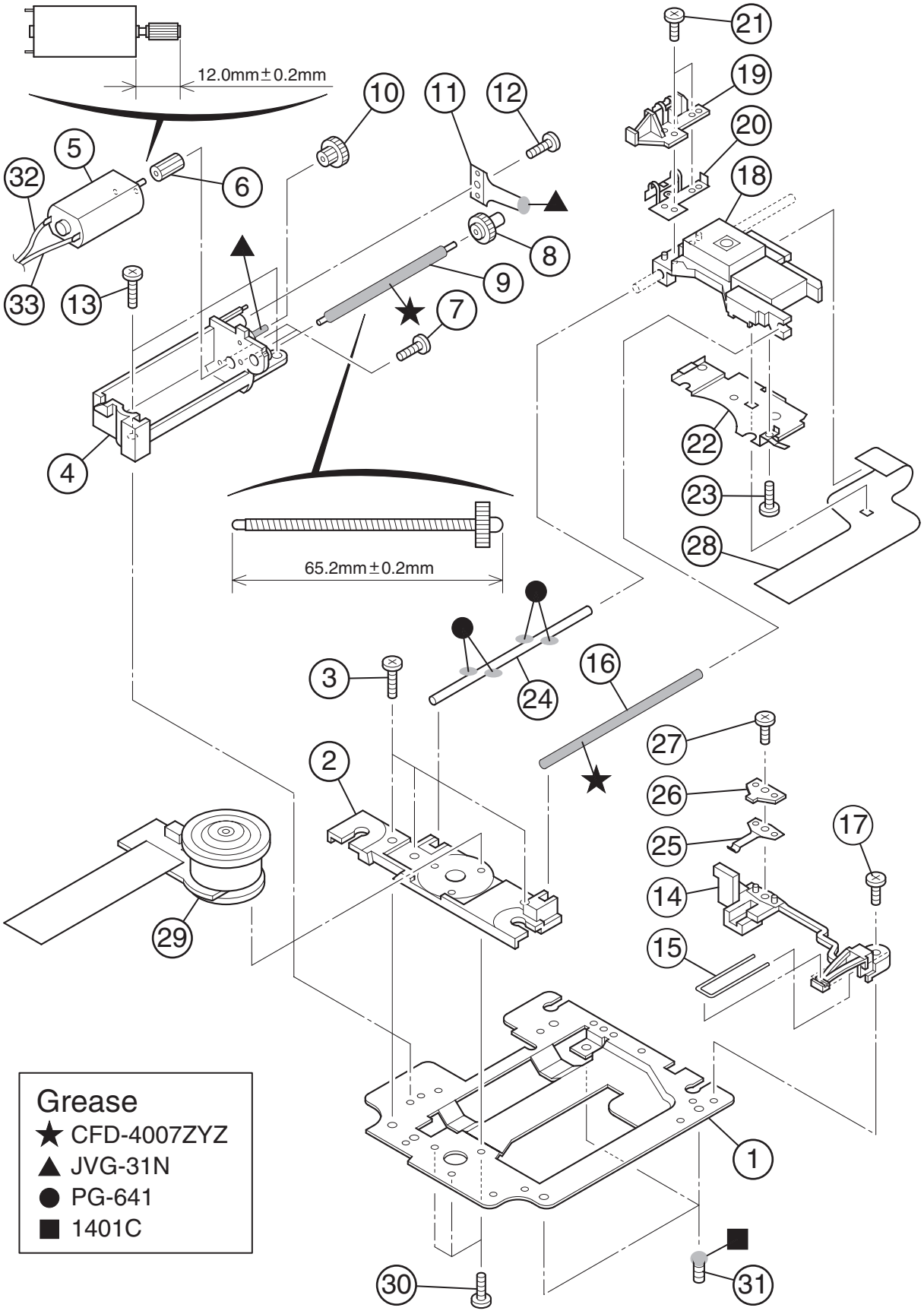
Block No. [M][7][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	3110006801	DUCT		
2	1030004001	TERMINAL		
3	7006930801	SCREW		
4	2810006501	SPACER		
5	7005731206	SCREW	(x3)	
6	CR050005-01	SPEAKER	(x2)	
7	7007840606	SCREW	(x8)	
8	9905000701	NET ASSY	LV21497-001A	
9	5900020901	BADGE	LV43427-001A	
10	9000005371	FOOT		
11	9000005361	FOOT	(x2)	
12	6000197391	RATING LABEL		

DVD mechanism assembly and parts list

Block No. M J M M

EXL-V73-1YPC



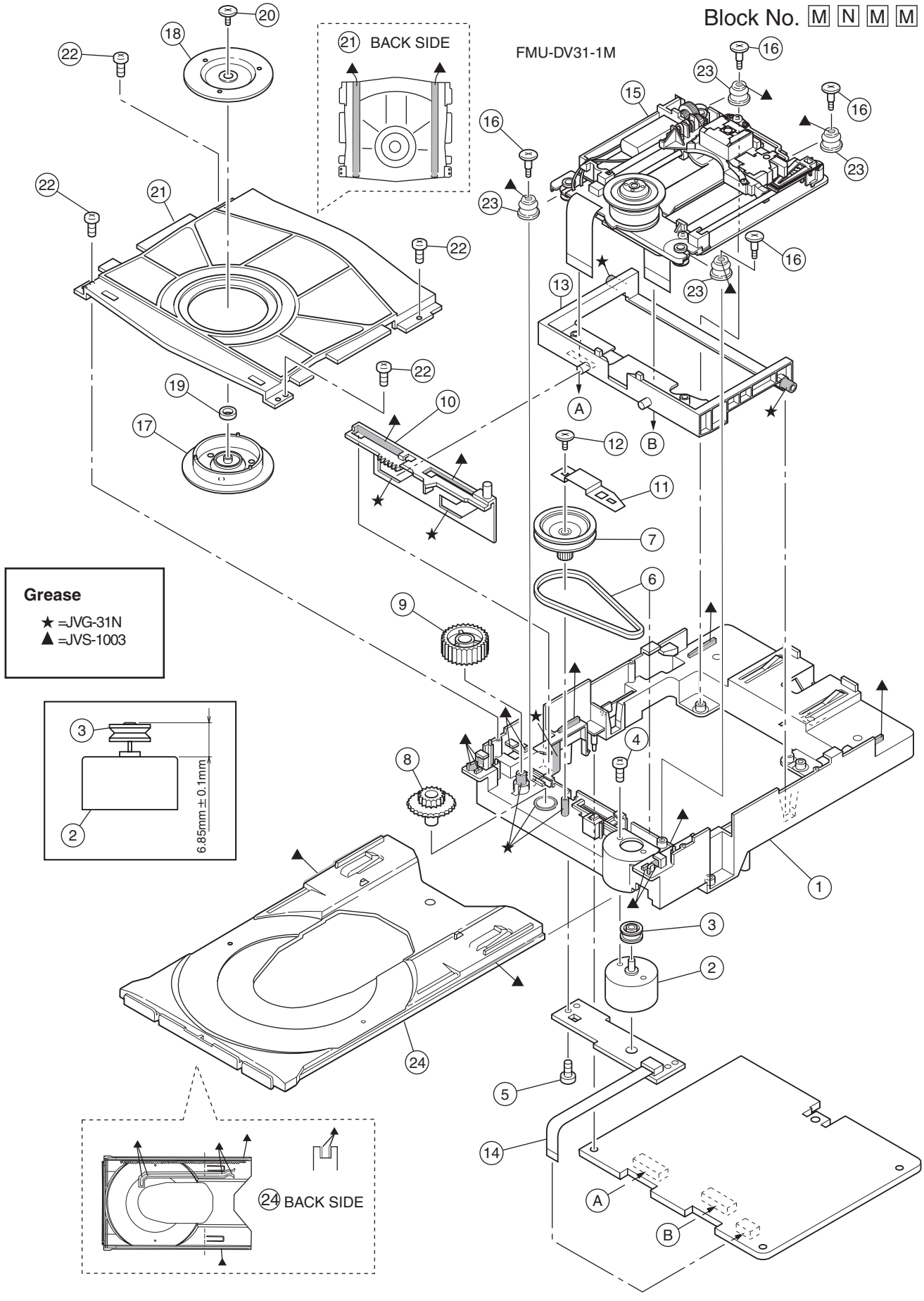
DVD mechanism

Block No. [M][J][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LE20520-002A	MECHA BASE		
2	LE20516-002A	SPINDLE BASE		
3	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x3)	
4	LE30909-001A	FEED HOLDER ASSY		
5	QAR0165-001	FEED MOTOR		
6	LV41510-001A	FEED GEAR T		
7	QYSPSPU2040M	SCREW	M2 x 4mm(x2)	
8	LV41512-002A	FEED GEAR E		
9	LV41517-003A	LEAD SCREW		
10	LV41511-003A	FEED GEAR M		
11	LE40742-001A	THRUST SPRING		
12	QYSDSF2005Z	SCREW	2mm x 5mm	
13	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
14	LE20517-001A	SHAFT HOLDER		
15	LE40744-001A	BAR SPRING(1)		
16	LV41121-002A	SHAFT		
17	QYSDST2605M	TAP SCREW	M2.6 x 5mm	
18	QAL0452-001	PICK UP		
19	LE20519-001A	SW ACTUATOR		
20	LE30886-001A	LEAD SPRING		
21	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm(x2)	
22	LE30888-003A	P.U.SPRING		
23	QYSPSGU1430Z	TAP SCREW	M1.4 x 3mm	
24	LV41121-002A	SHAFT		
25	LE40743-001A	T.SPRING(S)		
26	LE40774-001A	PLATE		
27	QYSDST2606Z	SCREW	2.6mm x 6mm	
28	QAL0284-001	FPC		
29	QAR0268-001	SPINDLE MOTOR		
30	QYSPSPU1760Z	SCREW	M1.7 x 6mm(x3)	
31	QYYASPF2608N	HEX SCREW	M2.6 x 8mm(x3)	
32	QUB549-05A1A1	SIN TWIST WIRE		
33	QUB544-05A1A1	SIN TWIST WIRE		

DVD loading base assembly and parts list

Block No. M N M M



DVD loading base

Block No. [M][N][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LV10454-007A-CK	LOADING BASE		
2	QAR0164-001	MOTOR		
3	LV42087-002A	MOTOR PULLEY		
4	QYSPSPU1730Z	SCREW	M1.7 x 3mm	
5	VKZ4777-003	MINI SCREW		
6	LV42209-001A	BELT		
7	LV42084-002A	PULLEY GEAR		
8	LV42085-002A	MIDDLE GEAR		
9	LV42086-001A	IDLE GEAR		
10	LV32514-002A	SLIDE CAM		
11	LV42348-001A	P GEAR BRACKET		
12	VKZ4777-003	MINI SCREW		
13	LV20912-002A	ELEVATOR		
14	QUQ410-0610CJ	FFC WIRE		
15	----------	TRAVERSE MECHANISM		
16	LV43245-001A	SPECIAL SCREW	(x4)	
17	LV32417-001A	CLAMPER		
18	LV42089-002A	YOKE		
19	LV42930-003A	P.C.MAGNET		
20	LV41741-001A	SPECIAL SCREW		
21	LV20913-002A	CLAMPER BASE		
22	QYSBSF2005Z	SCREW	2mm x 5mm(x4)	
23	LV41659-001A	INSULATOR	(x4)	
24	LV10455-002A-CK	TRAY		

Electrical parts list

Main board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC431	LA73054-X	IC	Video driver	
IC471	MN101C49GKS1	IC(MCU)		
IC472	BD4740G-W	IC	Reset	
IC481	SAA6588T/V2-X	IC	RDS decoder	
IC491	KIA7805API	IC	Regulator	
IC492	CD4066BM-X	IC		
IC601	HA17558AF-X	IC	Dual Operational Amp	
⚠ IC901	STR-G6651	IC	Switching regulator	
IC951	PQ05RD21	IC	Regulator	
IC953	KIA7805API	IC	Regulator	
Q581	KRC102S-X	DIGI TRANSISTOR		
Q951	2SC3576-JVC-T	TRANSISTOR		
Q952	KRA104S-X	DIGI TRANSISTOR		
Q953	KTA1267/YG/-T	TRANSISTOR		
Q954	SI2305DS-X	TRANSISTOR		
Q955	KRC103S-X	DIGITAL TR		
Q958	KTA1271/OY/-T	TRANSISTOR		
Q959	2SD601A/QR/-X	TRANSISTOR		
Q960	2SB709A/QR/-X	TRANSISTOR		
Q961	KTA1271/OY/-T	TRANSISTOR		
Q964	KTA1046/Y/	TRANSISTOR		
Q965	2SD601A/QR/-X	TRANSISTOR		
Q991	2SD601A/QR/-X	TRANSISTOR		
Q4091	KTA1271/OY/-T	TRANSISTOR		
Q4092	2SD601A/QR/-X	TRANSISTOR		
Q4481	KRC102S-X	DIGI TRANSISTOR		
Q4482	KRC102S-X	DIGI TRANSISTOR		
Q4483	KRA102S-X	DIGI TRANSISTOR		
Q4484	KRC102S-X	DIGI TRANSISTOR		
Q4701	KRC111S-X	TRANSISTOR		
Q4702	KRC107S-X	DIGI TRANSISTOR		
Q4703	KRC102S-X	DIGI TRANSISTOR		
Q4801	2SB709A/QR/-X	TRANSISTOR		
Q4802	KRC102S-X	DIGI TRANSISTOR		
Q4811	KRA102S-X	DIGI TRANSISTOR		
Q4812	KRC102S-X	DIGI TRANSISTOR		
Q4821	KRC102S-X	DIGI TRANSISTOR		
Q4831	KRC102S-X	DIGI TRANSISTOR		
Q4921	KTC3203/OY/-T	TRANSISTOR		
Q4931	KTA1271/OY/-T	TRANSISTOR		
Q4951	KRA104S-X	DIGI TRANSISTOR		
Q4952	KRA104S-X	DIGI TRANSISTOR		
D581	SLR-342VC-T	LED		
⚠ D901	S1WB/A/60-4101	BRIDGE DIODE		
D902	ERA18-04-T1	FR DIODE		
D903	ERA18-04-T1	FR DIODE		
D904	ERA18-04-T1	FR DIODE		
D908	ERA18-04-T1	FR DIODE		
D910	ERA18-04-T1	FR DIODE		
D911	ERA18-04-T1	FR DIODE		
D950	MTZJ36C-T2	Z DIODE		
D951	ERA18-04-T1	FR DIODE		
D951	or AU02-T1	FR DIODE		
D952	ERA18-04-T1	FR DIODE		
D952	or AU02-T1	FR DIODE		
⚠ D953	FMB-24	FUSEIODE		
⚠ D954	EU2YX-LFH6K	FR DIODE		
⚠ D956	EU2YX-LFH6K	FR DIODE		
⚠ D957	EU2YX-LFH6K	FR DIODE		
D958	MTZJ9.1A-T2	Z DIODE		
D960	MTZJ3.6B-T2	Z DIODE		
D961	1SS133-T2	DIODE		
D962	1SS133-T2	DIODE		
D970	1SS133-T2	DIODE		
D975	1SS133-T2	DIODE		
D991	MTZJ5.1B-T2	Z DIODE		
D4091	1SS133-T2	DIODE		
D4092	MTZJ6.8A-T2	Z DIODE		
D4701	1SS133-T2	DIODE		
D4702	1SS133-T2	DIODE		
D4703	MTZJ4.7B-T2	Z DIODE		
D4704	1SS355-X	SI DIODE		
D4705	1SS355-X	SI DIODE		
D4811	1SS133-T2	DIODE		
D4831	1SS133-T2	DIODE		
D4832	1SS133-T2	DIODE		
D4833	1SS133-T2	DIODE		
D4834	1SS133-T2	DIODE		
D4835	MTZJ6.8A-T2	Z DIODE		
D4841	1SS133-T2	DIODE		
D4891	MTZJ6.8A-T2	Z DIODE		
D4921	MTZJ8.2C-T2	Z DIODE		
D4922	1SS133-T2	DIODE		
D4931	MTZJ8.2C-T2	Z DIODE		
D4932	1SS133-T2	DIODE		
⚠ PC901	PC123Y22FZ	PHOTO COUPLER	Photo coupler	
⚠ PC902	PC123Y22FZ	PHOTO COUPLER	Photo coupler	
⚠ C902	QFZ9075-683	MPP CAPACITOR	0.068uF AC275V M	
⚠ C904	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠ C905	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠ C907	QEZ0577-826	E CAPACITOR	82uF	
C908	QCZ0136-332Z	C CAPACITOR	3300pF 1kV K	
C909	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C910	QCBB1HK-221Y	C CAPACITOR	220pF 50V K	
C913	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C914	QEZ0532-396Z	E CAPACITOR	39uF 25V M	
C915	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
⚠ C916	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
C917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C918	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C951	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C952	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C953	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C954	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C956	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C957	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C960	QEZ0529-826Z	E CAPACITOR	82uF 10V M	
C961	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C962	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C963	QEZ0533-396Z	E CAPACITOR	39uF 50V M	
C964	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C965	QTMN1AM-108Z	E CAPACITOR	1000uF 10V M	
C966	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C967	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C968	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C969	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C970	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C973	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C976	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C977	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C978	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C979	QEZ0530-827	E CAPACITOR	820uF 16V M	
C980	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C981	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C982	QEZ0531-567	E CAPACITOR	560uF 25V M	
C983	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C984	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C985	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C986	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C987	QEZ0532-187Z	E CAPACITOR	180uF 25V M	
C989	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C992	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C993	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C994	QCBB1HK-223Y	C CAPACITOR	0.022uF 50V K	
C997	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C4001	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C4002	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C4011	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C4012	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C4071	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C4072	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4073	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4074	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C4075	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C4076	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4077	NCS31HJ-820X	C CAPACITOR	82pF 50V J	
C4078	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4079	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4091	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C4092	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4301	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C4311	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C4321	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4331	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4351	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4391	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4393	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4394	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4395	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4401	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4402	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4411	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C4412	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4421	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4422	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4423	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4424	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4431	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4433	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4441	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4443	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4451	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4453	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4471	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4472	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4473	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4474	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4475	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C4476	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C4701	QEZ0554-479	EDL.CAPACITOR	0.047F	
C4702	QEKC0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4703	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C4704	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C4705	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4706	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4707	QEKC1AM-107Z	E CAPACITOR	100uF 10V M	
C4708	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4771	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4772	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4773	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4774	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4801	QEKC1HM-224Z	E CAPACITOR	0.22uF 50V M	
C4891	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4892	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4902	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C4903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4904	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C4921	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C4922	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4931	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C4932	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4971	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4972	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6101	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6102	NCS31HJ-180X	C CAPACITOR	18pF 50V J	
C6103	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C6104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6201	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6202	NCS31HJ-180X	C CAPACITOR	18pF 50V J	
C6203	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C6204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6901	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C6902	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C6903	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R551	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R552	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R561	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R562	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R563	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R564	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R581	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R901	QRL01DJ-683X	OMF RESISTOR	68kΩ 1W J	
R903	QRE141J-270Y	C RESISTOR	27Ω 1/4W J	
R904	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R905	QRL027J-683	OMF RESISTOR	68kΩ 2W J	
R906	QRJ146J-681X	UNF C RESISTOR	680Ω 1/4W J	
R907	QRT027J-R47	MF RESISTOR	0.47Ω 2W J	
R908	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R910	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R911	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R952	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R953	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
⚠ R954	QRZ9005-100X	FUSI RESISTOR	10Ω	
R955	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R960	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R961	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R964	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R965	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R966	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R969	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R971	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R972	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R977	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R980	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R983	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R984	QRZ9005-471X	FUSI RESISTOR	470Ω	
R985	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R986	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R987	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R988	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R989	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R990	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R4011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4013	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R4014	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R4071	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R4072	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4073	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4074	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4091	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4092	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4093	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4181	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4182	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4183	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4201	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4202	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R4231	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4232	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4241	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4242	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4251	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4252	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4381	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4382	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4383	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4385	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4411	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4421	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4422	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4432	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4442	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4452	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4471	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R4472	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4473	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4474	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4475	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4476	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4477	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4478	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4481	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R4482	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R4483	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4484	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4485	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4486	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4701	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R4702	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R4703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4704	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4705	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4706	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4708	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4754	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4757	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4758	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4760	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4761	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4762	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4764	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4765	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4772	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4774	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4801	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4802	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
⚠ R4811	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
R4821	QRE141J-201Y	C RESISTOR	200Ω 1/4W J	
R4822	QRE141J-201Y	C RESISTOR	200Ω 1/4W J	
R4823	QRE141J-201Y	C RESISTOR	200Ω 1/4W J	
R4831	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4832	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4833	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4834	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R4835	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4841	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4842	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R4861	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4862	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4863	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4864	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4865	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4866	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4867	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4868	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4871	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4872	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4873	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4874	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4881	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4882	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4883	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4884	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4885	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4891	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4892	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
⚠ R4921	QRZ9005-100X	FUSI RESISTOR	10Ω	
R4922	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
⚠ R4931	QRZ9005-100X	FUSI RESISTOR	10Ω	
R4932	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4951	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4952	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6101	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6103	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R6104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6105	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6106	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R6107	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R6201	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6203	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R6204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6206	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R6207	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R6301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6901	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6902	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6903	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6904	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
⚠ L901	QQR1105-001	LINE FILTER		
L951	QQL244K-R22Z	COIL	0.22uH K	
L952	QQL44BK-220Z	COIL	22uH K	
L955	QQL26AK-220Z	COIL	22uH K	
L957	QQL244K-100Z	COIL	10uH K	
L959	QQL244K-100Z	COIL	10uH K	
L4391	QQL25CK-221Z	COIL	220uH K	
⚠ T901	QQS0097-001	SW TRANSF		
CN405	QGB2027M9-26	CONNECTOR	B-B (1-26)	
CN406	QGB2027M9-26	CONNECTOR	B-B (1-26)	
CN407	QGB1216J1-14S	CONNECTOR	B-B (1-14)	
CN408	QGA2001C1-03	CONNECTOR	W-B (1-3)	
CN410	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN411	QGF1016C1-31	CONNECTOR	FFC/FPC (1-31)	
CN412	QGA2001C1-06	CONNECTOR	W-B (1-6)	
CN414	QGF1205C1-06	CONNECTOR	FFC/FPC (1-6)	
CN901	QGA2001C1-12	CONNECTOR	W-B (1-12)	
CN902	QGA2501C1-10	CONNECTOR	W-B (1-10)	
⚠ CP471	ICP-N5-T	IC PROTECTOR	250mA	
⚠ CP951	ICP-N10-T	IC PROTECTOR	400mA	
⚠ CP952	ICP-N5-T	IC PROTECTOR	250mA	
EP401	QNZ0136-001Z	EARTH PLATE		
EP901	QNZ0136-001Z	EARTH PLATE		
EP902	QNZ0136-001Z	EARTH PLATE		
EP951	QNZ0136-001Z	EARTH PLATE		
FC901	QNG0003-001Z	FUSE CLIP		
FC902	QNG0003-001Z	FUSE CLIP		
HS491	LE40505-001A	HEAT SINK		
HS901	E70306-002	HEAT SINK		
HS964	LE40505-001A	HEAT SINK		
J4401	QNN0557-001	PIN JACK		
J4403	QNZ0625-001	RGB CONNECTOR		
J4891	QNS0089-001	3.5 JACK		
⚠ P901	QNC0081-001	AC INLET		
PP901	QZW0038-001	WIRE CLAMP		
PP902	QZW0038-001	WIRE CLAMP		
S551	QSW0683-001Z	PUSH SW		
S552	QSW0683-001Z	PUSH SW		
S553	QSW0683-001Z	PUSH SW		
S561	QSW0683-001Z	PUSH SW		
S562	QSW0683-001Z	PUSH SW		
S563	QSW0683-001Z	PUSH SW		
S564	QSW0683-001Z	PUSH SW		
S565	QSW0683-001Z	PUSH SW		
S581	QSW0683-001Z	PUSH SW		
S4401	QSW0454-001	SW		
SP471	VYH7653-001	IC HOLDER		
X4071	QAX0263-001Z	CRYSTAL	4.332MHz	
X4701	QAX0246-001Z	C RESONATOR	8.00MHz	

Front board

Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC501	MN101C35DKW	IC(MPU)	FL driver microcomputer	
IC502	GP1UM271XK	IR DETECT UNIT	Receiver for remote	

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q501	KRC102S-X	DIGI TRANSISTOR		
Q502	KRC102S-X	DIGI TRANSISTOR		
Q511	KRC102M-T	DIGI TRANSISTOR		
Q521	KRC111M-T	TRANSISTOR		
D511	SELU2E10C-P	LED		
C501	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C502	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C503	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C504	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C505	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C507	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C511	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C512	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C531	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C571	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C572	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C573	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C574	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R511	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R521	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R531	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R571	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN501	QGB1216K1-14S	CONNECTOR	B-B (1-14)	
CN502	QGA2001F1-02	CONNECTOR	W-B (1-2)	
DI501	QLF0119-002	FL TUBE		
J571	QNS0170-001	HEADPHONE JACK		
K571	NQR0007-002X	FERRITE BEADS		
K572	NQR0007-002X	FERRITE BEADS		
K573	NQR0007-002X	FERRITE BEADS		
K574	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
S571	QSW0683-001Z	PUSH SW		
X501	QAX0246-001Z	C RESONATOR	8.00MHz	

DSP board

Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC151	BU4066BCF-X	IC	Source selector	
IC153	M62446AFP-X	IC	6 channel electronic volume	
IC158	NJM4565M-WE	IC	CD L.P.F	
IC159	NJM4565M-WE	IC	CD L.P.F	
IC160	NJM4565M-WE	IC	CD L.P.F	
IC401	AK4527BVQP	IC	A/D D/A converter	
IC402	MM1613DN-X	IC	Regulator	
IC403	TC9446F-025	IC	Audio digital processor	
IC404	LP61L1024S-12-X	IC	SRAM	
IC406	UPD784215AGC167	IC(MICRO C ROM)	Digital signal controller	
IC407	MM1563DF-X	IC	Regulator	
IC408	74VHC00SJ-X	IC		
IC409	GP1FA352RZ	OPT RECEIVER		
IC510	BA15218F-XE	IC	Dual operational amplifier	
IC511	BA15218F-XE	IC	Dual operational amplifier	
IC531	BA15218F-XE	IC	Dual operational amplifier	
IC561	BA15218F-XE	IC	Dual operational amplifier	
IC581	BA15218F-XE	IC	Dual operational amplifier	
IC591	BA15218F-XE	IC	Dual operational amplifier	

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q401	KRA104S-X	DIGI TRANSISTOR		
Q402	KRC107S-X	DIGI TRANSISTOR		
Q403	KRC107S-X	DIGI TRANSISTOR		
Q1131	IMX9-W	TRANSISTOR	Driver	
Q1133	IMX9-W	TRANSISTOR	Driver	
Q1135	IMX9-W	TRANSISTOR	Driver	
Q1137	2SC3661-X	TRANSISTOR		
Q1251	KRA104S-X	DIGI TRANSISTOR		
Q1252	KRA104S-X	DIGI TRANSISTOR		
Q2501	KRA104S-X	DIGI TRANSISTOR		
Q2502	KRC107S-X	DIGI TRANSISTOR		
Q2521	IMX9-W	TRANSISTOR	Driver	
Q2561	IMX9-W	TRANSISTOR	Driver	
Q2581	IMX9-W	TRANSISTOR	Driver	
D401	DAN202K-X	D.TR. C.M		
D403	DAN202K-X	D.TR. C.M		
D405	DAN202K-X	D.TR. C.M		
D406	DAP202K-X	D.TRANSISTOR		
C401	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C402	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C403	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C404	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C407	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C408	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C411	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C413	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C421	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C422	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C423	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C424	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C425	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C426	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C427	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C430	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C431	NCS31HJ-180X	C CAPACITOR	18pF 50V J	
C432	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C433	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C434	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C435	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C436	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C437	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C442	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C443	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C444	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C445	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C450	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C451	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C452	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C453	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C454	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C455	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C456	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C458	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C459	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C460	NEA71CM-476X	E CAPACITOR	47uF 16V M	
C461	NEA71CM-476X	E CAPACITOR	47uF 16V M	
C462	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C463	NEA70JM-107X	E CAPACITOR	100uF 6.3V M	
C466	NEA71CM-476X	E CAPACITOR	47uF 16V M	
C467	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C493	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C494	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C495	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1101	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C1102	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C1103	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1104	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1121	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1122	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C1123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1124	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1125	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1126	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1127	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1128	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1129	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C1130	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C1131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1141	NEA71CM-476X	E CAPACITOR	47uF 16V M	
C1142	NEA71CM-476X	E CAPACITOR	47uF 16V M	
C1176	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1177	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1178	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1179	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1180	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1181	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1183	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1201	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1202	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1203	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1204	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1205	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1206	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1207	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1208	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1209	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1210	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1211	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1212	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1213	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1214	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1215	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1216	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1217	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1218	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C1221	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1222	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1223	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1224	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1225	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C1226	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1251	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C1252	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C2503	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2504	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2507	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2508	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2511	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C2512	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C2513	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C2514	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C2515	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C2516	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C2517	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C2518	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C2519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2525	NCB21HK-102X	C CAPACITOR	1000pF 50V K	
C2526	NCB21HK-102X	C CAPACITOR	1000pF 50V K	
C2527	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2528	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2531	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2532	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2533	NEA71HM-105X	E CAPACITOR	1uF 50V M	
C2534	NEA71HM-105X	E CAPACITOR	1uF 50V M	
C2539	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2540	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2541	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2542	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2553	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C2554	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C2555	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2556	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2561	NEA71HM-105X	E CAPACITOR	1uF 50V M	
C2562	NEA71HM-105X	E CAPACITOR	1uF 50V M	
C2563	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C2564	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C2569	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2570	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2575	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2576	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2577	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2578	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2581	NEA71HM-105X	E CAPACITOR	1uF 50V M	
C2582	NEA71CM-106X	E CAPACITOR	10uF 16V M	
C2583	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C2584	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2589	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2590	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2592	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2594	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C2595	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2597	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2598	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2599	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2600	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2601	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2602	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2603	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
C2604	NEA71EM-475X	E CAPACITOR	4.7uF 25V M	
R403	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R404	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R405	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R406	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R407	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R408	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R415	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R418	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R419	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R420	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R423	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R424	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R425	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R426	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R427	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R428	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R429	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R430	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R431	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R432	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R435	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R438	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R441	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R443	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R444	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R445	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R446	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R447	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R448	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R449	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R450	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R451	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R452	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R453	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R454	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R455	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R456	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R457	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R458	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R459	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R461	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R462	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R463	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R464	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R465	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R466	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R467	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R468	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R471	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R472	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R473	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R474	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R475	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R476	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R481	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R482	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R483	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R491	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R492	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1101	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1102	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1103	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1104	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1121	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1131	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1132	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1133	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1134	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1135	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1136	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1137	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1138	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1139	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1140	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1143	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1144	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1145	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1147	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1148	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1150	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1151	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1152	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1153	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1154	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1155	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1156	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1157	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R1158	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1161	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1162	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1163	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1164	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1165	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1166	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1167	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1168	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1169	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1170	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1171	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1172	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1173	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1174	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1175	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R1176	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1197	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R1201	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1202	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1251	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1252	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2503	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R2504	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R2507	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2510	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2514	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2515	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2516	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2517	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2518	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2519	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2520	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2527	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2528	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2529	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2530	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2531	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2532	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2533	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2534	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2535	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2536	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2537	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2538	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2562	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2563	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2564	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2565	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2566	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2567	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2568	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2575	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2576	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2577	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2578	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2579	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2580	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2581	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2582	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2583	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2584	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R2585	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2586	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2587	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2588	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2590	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2594	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2595	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2596	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2597	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2598	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2599	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2600	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
CN401	QGF1016F2-31W	CONNECTOR	FFC/FPC (1-31)	
J1101	QNN0598-001	PIN JACK		
J1103	QND0118-001	DIN CONNECTOR		
K401	NQR0319-001X	FERRITE BEADS		
LC401	NQR0321-001X	EMI FILTER		
X401	NAX0385-001X	CRYSTAL	24.576MHz	
X402	NAX0275-001X	C OSCILLATOR	6.144MHz	

Mother board

Block No. [0][4][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ Q151	KTC3203/OY/-T	TRANSISTOR		
Q501	KRA104M-T	DIGI TRANSISTOR		
Q502	KRC102M-T	DIGI TRANSISTOR		
Q503	KTC3199/GL/-T	TRANSISTOR		
Q504	KTA1267/YG/-T	TRANSISTOR		
Q505	KRC102M-T	DIGI TRANSISTOR		
Q511	KRC104M-T	TRANSISTOR		
Q512	KTC3199/GL/-T	TRANSISTOR		
Q513	KTC3199/GL/-T	TRANSISTOR		
Q514	KRA102M-T	DIGI TRANSISTOR		
Q515	KTC3203/OY/-T	TRANSISTOR		
Q516	KTC3199/GL/-T	TRANSISTOR		
Q517	KRC104M-T	TRANSISTOR		
Q521	KRA104M-T	DIGI TRANSISTOR		
Q522	KTC3199/GL/-T	TRANSISTOR		
Q523	KTC3199/GL/-T	TRANSISTOR		
Q524	KTA1267/YG/-T	TRANSISTOR		
Q525	KTC3199/GL/-T	TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q531	KTC3199/GL/-T	TRANSISTOR		
Q532	KTC3199/GL/-T	TRANSISTOR		
Q545	KRC102M-T	DIGI TRANSISTOR		
D101	1SS133-T2	DIODE		
⚠ D151	GBU803	BRIDGE DIODE		
⚠ D152	GBU803	BRIDGE DIODE		
D153	1SS133-T2	DIODE		
D154	1SS133-T2	DIODE		
D161	1SS133-T2	DIODE		
D162	MTZJ13C-T2	Z DIODE		
D401	11ES2-T4	DIODE		
D402	1SS133-T2	DIODE		
D403	MTZJ6.2B-T2	Z DIODE		
D501	1SS133-T2	DIODE		
D502	1SS133-T2	DIODE		
D503	MTZJ5.1C-T2	Z DIODE		
D504	1SS133-T2	DIODE		
D505	1SS133-T2	DIODE		
D511	1SS133-T2	DIODE		
D512	1SS133-T2	DIODE		
D513	1SS133-T2	DIODE		
D514	1SS133-T2	DIODE		
D515	MTZJ15C-T2	Z DIODE		
D516	1SS133-T2	DIODE		
D517	MTZJ27B-T2	Z DIODE		
D518	MTZJ27B-T2	Z DIODE		
D519	1SS133-T2	DIODE		
D520	MTZJ3.6A-T2	ZENER DIODE		
D521	1SS133-T2	DIODE		
D522	1SS133-T2	DIODE		
D523	1SS133-T2	DIODE		
D524	1SS133-T2	DIODE		
D525	MTZJ15C-T2	Z DIODE		
D526	MTZJ6.2B-T2	Z DIODE		
D535	1SS133-T2	DIODE		
⚠ C101	QCZ9105-472	C CAPACITOR	4700pF 250V M	
C151	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C152	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C153	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C154	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C155	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C156	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C161	QEZ0223-478	E CAPACITER	4700uF	
C162	QEZ0223-478	E CAPACITER	4700uF	
C163	QETM1EM-688	E CAPACITOR	6800uF 25V M	
C164	QETM1EM-688	E CAPACITOR	6800uF 25V M	
C165	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C166	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C411	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C412	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C421	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C422	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C431	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C432	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C441	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C442	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C451	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C452	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C501	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C502	QFN31HJ-103Z	M CAPACITOR	0.01uF 50V J	
C503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C511	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C512	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C521	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C522	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C523	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C531	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C532	QCF31HZ-103Z	C CAPACITOR	0.01uF 50V Z	
C533	QCF31HZ-103Z	C CAPACITOR	0.01uF 50V Z	
R151	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R152	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R153	QRL027J-391	OMF RESISTOR	390Ω 2W J	
⚠ R161	QRZ9005-100X	FUSI RESISTOR	10Ω	
R162	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R411	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R421	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R431	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R441	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R451	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R491	QRL027J-470	OMF RESISTOR	47Ω 2W J	
R492	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R501	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R502	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R503	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R504	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R505	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R506	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R510	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R511	QRE141J-753Y	C RESISTOR	75kΩ 1/4W J	
R512	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R513	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R514	QRE141J-753Y	C RESISTOR	75kΩ 1/4W J	
R515	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R516	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R517	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J	
R518	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R519	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R520	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R521	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R522	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R531	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R532	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R533	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R534	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R535	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R536	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R537	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R538	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R539	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R541	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R543	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R544	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R545	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R546	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R547	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R548	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R549	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R550	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
⚠ R555	QRZ9005-271X	FUSI RESISTOR	270Ω	
R556	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R557	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R561	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R562	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R563	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R564	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R565	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R566	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
L411	QQLZ038-R45	COIL	0.45uH	
L421	QQLZ038-R45	COIL	0.45uH	
L431	QQLZ038-R45	COIL	0.45uH	
L441	QQLZ038-R45	COIL	0.45uH	
L451	QQLZ038-R45	COIL	0.45uH	
⚠ CN101	QGA7901C1-02	CONNECTOR	W-B (1-2)	
⚠ CN102	QGA7901C1-02	CONNECTOR	W-B (1-2)	
⚠ CN151	QGA3901C1-05	CONNECTOR	W-B (1-5)	
CN401	QGB2510K2-08	CONNECTOR	B-B (1-8)	
CN402	QGA3901F2-04	CONNECTOR	W-B (1-4)	
CN403	QGB2510K2-14	CONNECTOR	B-B (1-14)	
CN404	QGB2510K2-18	CONNECTOR	B-B (1-18)	
CN501	QGB2510J1-08	CONNECTOR	B-B (1-8)	
CN503	QGB2510J1-14	CONNECTOR	B-B (1-14)	
CN504	QGB2510J1-18	CONNECTOR	B-B (1-18)	
CN521	QGB2510J1-07	CONNECTOR	B-B (1-7)	
CN522	QGB2510J1-18	CONNECTOR	B-B (1-18)	
CN531	QGB2510J1-07	CONNECTOR	B-B (1-7)	
CN532	QGB2510J1-18	CONNECTOR	B-B (1-18)	
FC101	QNG0003-001Z	FUSE CLIP		
FC102	QNG0003-001Z	FUSE CLIP		
FC155	QNG0003-001Z	FUSE CLIP		
FC156	QNG0003-001Z	FUSE CLIP		
FC157	QNG0003-001Z	FUSE CLIP		

⚠ Symbol No.	Part No.	Part Name	Description	Local
FC158	QNG0003-001Z	FUSE CLIP		
HS151	QZW0115-001	HEATSINK		
J401	QND0118-001	DIN CONNECTOR		
J402	QNB0162-002	SPK TERMINAL		
J403	QNB0161-002	SPK TERMINAL		
J404	QNB0162-002	SPK TERMINAL		
K401	QQR1277-001Z	COIL		
K402	QQR1277-001Z	COIL		
⚠ RY101	QSK0142-001	RELAY		
RY401	QSK0127-001	RELAY		
RY402	QSK0127-001	RELAY		
RY403	QSK0127-001	RELAY		

Amplifier board

Block No. [0][5][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC201	STK413-490	IC(HYBRID)		
⚠ IC301	STK413-420	IC(HYBRID)		
Q2101	KTA1267/YG/-T	TRANSISTOR		
Q2201	KTA1267/YG/-T	TRANSISTOR		
Q2301	KTA1267/YG/-T	TRANSISTOR		
Q3101	KTA1267/YG/-T	TRANSISTOR		
Q3201	KTA1267/YG/-T	TRANSISTOR		
Q3301	KTA1267/YG/-T	TRANSISTOR		
D2101	1SS133-T2	DIODE		
D2201	1SS133-T2	DIODE		
D2301	1SS133-T2	DIODE		
D2501	MTZJ13C-T2	Z DIODE		
D2502	MTZJ13C-T2	Z DIODE		
D3101	1SS133-T2	DIODE		
D3201	1SS133-T2	DIODE		
D3301	1SS133-T2	DIODE		
D3501	MTZJ13C-T2	Z DIODE		
D3502	MTZJ13C-T2	Z DIODE		
C2102	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C2103	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2104	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C2105	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C2106	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C2107	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C2108	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C2202	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C2203	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2204	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C2205	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C2206	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C2207	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C2208	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C2302	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C2303	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2304	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C2305	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C2306	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C2307	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C2308	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C2501	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2502	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C2503	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2504	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C2505	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2506	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2507	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C3102	QFVJ1HJ-473Z	MF CAPACITOR	0.047uF 50V J	
C3103	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3104	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3105	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C3106	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C3107	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C3108	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C3202	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C3203	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3204	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3205	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C3206	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C3207	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C3208	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C3302	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
C3303	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3304	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C3305	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C3306	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C3307	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C3308	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C3501	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C3502	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C3503	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C3504	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C3505	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C3506	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C3507	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
R2101	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2102	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2103	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R2104	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R2105	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
⚠ R2106	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2107	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R2108	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R2109	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2110	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2111	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2112	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2113	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2201	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2202	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2203	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R2204	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R2205	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
⚠ R2206	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2207	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R2208	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R2209	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2210	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2211	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2212	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2213	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2301	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2302	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2303	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R2304	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R2305	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
⚠ R2306	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2307	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R2308	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R2309	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R2310	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2311	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2312	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2313	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
⚠ R2501	QRZ9005-101X	F.RES. I.M	100Ω	
⚠ R2502	QRZ9005-101X	F.RES. I.M	100Ω	
R2503	QRK126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J	
R2504	QRK126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J	
R2505	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
⚠ R2506	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2507	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2508	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2509	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2510	QRZ9005-101X	F.RES. I.M	100Ω	
R3101	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3102	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3103	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R3104	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R3105	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
⚠ R3106	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R3107	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3108	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R3109	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R3110	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R3111	QRJ146J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J	
R3112	QRE141J-512Y	C RESISTOR	5.1kΩ 1/4W J	
R3113	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3201	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3202	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3203	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R3204	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R3205	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
⚠ R3206	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R3207	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3208	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R3209	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R3210	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R3211	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R3212	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3213	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3301	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3302	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3303	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R3304	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R3305	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
⚠ R3306	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R3307	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3308	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R3309	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R3310	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R3311	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R3312	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3313	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
⚠ R3501	QRZ9005-101X	F.RES. I.M	100Ω	
⚠ R3502	QRZ9005-101X	F.RES. I.M	100Ω	
R3503	QRK126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J	
R3504	QRK126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J	
R3505	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
⚠ R3506	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R3507	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R3508	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R3509	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R3510	QRZ9005-101X	F.RES. I.M	100Ω	
L2101	QQLZ038-R45	COIL	0.45uH	
L2201	QQLZ038-R45	COIL	0.45uH	
L2301	QQLZ038-R45	COIL	0.45uH	
L3101	QQLZ038-R45	COIL	0.45uH	
L3201	QQLZ038-R45	COIL	0.45uH	
L3301	QQLZ038-R45	COIL	0.45uH	
CN251	QGB2510K2-07	CONNECTOR	B-B (1-7)	
CN252	QGB2510K2-18	CONNECTOR	B-B (1-18)	
CN351	QGB2510K2-07	CONNECTOR	B-B (1-7)	
CN352	QGB2510K2-18	CONNECTOR	B-B (1-18)	

DVD loading main board

Block No. [0][6][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC101	AN8703FH-V	IC	Frontend processor for DVD	
IC201	BA5983FM-X	IC	4-channel driver	
IC251	BA6664FM-X	IC	Motor driver	
IC301	MN103S26EGA	IC	Optical disc controller	
IC401	MN102L62GLF3	IC	UNIT CPU	
IC451	S-93C66AFJ-X	IC	Serial EEPROM	
IC501	NDV8601VWA-BE	IC	AV Decoder	
IC505	K4S643232F-TC70	IC		
IC510	AK93C65AF-X	IC	EEPROM	
IC511	LM1117MP1.8-X	IC	Regulator	
IC512	74LCX373MTC-X	IC(DIGITAL)	Octal D-type latch	
IC513	74LCX373MTC-X	IC(DIGITAL)	Octal D-type latch	
IC521	MM74HCT32MTC-X	IC	Quad 2 input OR gate	
IC522	74LCX32MTC-X	IC(DIGITAL)	OR gate	
IC523	NC7SZ125P5-X	IC(DIGITAL)	Bus buffer gate with 3-state output	
Q101	KTA1001/Y/-X	TRANSISTOR		
Q102	KTA1001/Y/-X	TRANSISTOR		
Q103	DTA144EE-X	DIGI TRANSISTOR		
Q501	2SB1424/QR/-W	TRANSISTOR		
Q502	2SC2412K/RS/-X	TRANSISTOR		
D101	RB521S-30-X	SB DIODE		
D202	1SS355-X	SI DIODE		
C105	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C110	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C112	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C113	NEA70JM-226X	E CAPACITOR	22uF 6.3V M	
C115	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C116	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C117	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C118	NCB31CK-273X	C CAPACITOR	0.027uF 16V K	
C119	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C120	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C122	NCS31HJ-120X	C CAPACITOR	12pF 50V J	
C123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C124	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C125	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C127	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C129	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C135	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C137	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C138	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C139	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C141	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C142	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C143	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C144	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C146	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C201	NEA70JM-226X	E CAPACITOR	22uF 6.3V M	
C203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C207	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C208	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C212	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C215	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C216	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C218	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C251	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C252	NEA71AM-336X	E CAPACITOR	33uF 10V M	
C253	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C255	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C258	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C259	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C260	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C261	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C262	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C263	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C264	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C303	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C304	NEA70GM-107X	E CAPACITOR	100uF 4V M	
C306	NEA70GM-107X	E CAPACITOR	100uF 4V M	
C308	NEA70GM-107X	E CAPACITOR	100uF 4V M	
C310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C311	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C312	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C313	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C314	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C315	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C316	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C317	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C320	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C321	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C322	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C323	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C324	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C325	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C326	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C327	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C328	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C329	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C332	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C337	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C338	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C340	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C341	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C342	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C343	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C344	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C345	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C346	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C401	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C403	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C404	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C407	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C450	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C506	NCS31HJ-150X	C CAPACITOR	15pF 50V J	
C507	NCS31HJ-180X	C CAPACITOR	18pF 50V J	
C511	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C517	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C518	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C519	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C524	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C527	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C528	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C529	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C532	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C533	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C534	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C535	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C536	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C539	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C540	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C541	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C542	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C543	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C544	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C545	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C547	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C548	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C549	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C550	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C558	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C569	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C571	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C572	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C573	NEA70GM-227X	E CAPACITOR	220uF 4V M	
C578	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C580	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C581	NEA70GM-227X	E CAPACITOR	220uF 4V M	
C582	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C601	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C602	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C904	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C906	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C908	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C992	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C993	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C994	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C995	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C996	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C997	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C998	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R101	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R102	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R103	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R104	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R105	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R106	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R107	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R109	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R110	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R111	NRVA63D-243X	CMF RESISTOR	24kΩ 1/16W D	
R112	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R113	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R115	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R116	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R117	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R120	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R125	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R126	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R127	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R128	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R129	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R130	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R201	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R202	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R208	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R210	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J	
R211	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J	
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R216	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R217	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R218	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R223	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R224	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J	
R252	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R254	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R255	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R256	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R258	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R301	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R302	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R303	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R305	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R306	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R307	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R313	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R317	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R319	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R320	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R321	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R323	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R324	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R325	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R326	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R327	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R328	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R329	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R330	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R331	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R332	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R333	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R334	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R336	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R337	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R338	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R339	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R340	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R341	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R402	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R413	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R414	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R421	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R422	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R423	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R427	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R428	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R501	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R512	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R531	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R532	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R533	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R534	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R535	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R536	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R541	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R543	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R544	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R548	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R549	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R550	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R552	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R565	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R566	NRVA63D-132X	CMF RESISTOR	1.3kΩ 1/16W D	
R570	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R573	NRSA63J-162X	MG RESISTOR	1.6kΩ 1/16W J	
R574	NRSA63J-162X	MG RESISTOR	1.6kΩ 1/16W J	
R575	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R576	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R578	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R579	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R580	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R583	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R584	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R655	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R738	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R740	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R991	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
L501	NQL044K-100X	COIL	10uH K	
CN101	QGF0522F1-30W	CONNECTOR	FFC/FPC (1-30)	
CN201	QGF1016F2-15W	CONNECTOR	FFC/FPC (1-15)	
CN202	QGF1016F2-06W	CONNECTOR	FFC/FPC (1-6)	
CN502	QGB2027L1-26X	CONNECTOR	B-B (1-26)	
CN503	QGB2027L1-26X	CONNECTOR	B-B (1-26)	
IC509	SST39VF160-9DD	IC		
K101	NQR0007-002X	FERRITE BEADS		
K301	NQR0007-002X	FERRITE BEADS		
K302	NQR0007-002X	FERRITE BEADS		
K303	NQR0007-002X	FERRITE BEADS		
K304	NQR0007-002X	FERRITE BEADS		
K401	NQR0007-002X	FERRITE BEADS		
K501	NQR0007-002X	FERRITE BEADS		
K504	NQR0007-002X	FERRITE BEADS		
K505	NQR0007-002X	FERRITE BEADS		
K507	NQR0007-002X	FERRITE BEADS		
K508	NQR0007-002X	FERRITE BEADS		
K509	NQR0007-002X	FERRITE BEADS		
K510	NQR0007-002X	FERRITE BEADS		
K513	NQR0007-002X	FERRITE BEADS		
K515	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K518	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K519	NQR0007-002X	FERRITE BEADS		
K520	NQR0007-002X	FERRITE BEADS		
K556	NQR0129-002X	FERRITE BEADS		
K557	NQR0129-002X	FERRITE BEADS		
K558	NQR0129-002X	FERRITE BEADS		
K559	NQR0129-002X	FERRITE BEADS		
K560	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K561	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K562	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K563	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K564	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K565	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K566	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K567	NQR0007-002X	FERRITE BEADS		
K568	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K569	NQR0007-002X	FERRITE BEADS		
K570	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K571	NQR0007-002X	FERRITE BEADS		
K572	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K573	NQR0007-002X	FERRITE BEADS		
K574	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K575	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K576	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K577	NQR0007-002X	FERRITE BEADS		
K578	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K579	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K582	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K586	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
X301	NAX0542-001X	C RESONATOR	16.93MHz	
X401	NAX0543-001X	C RESONATOR	13.50MHz	
X571	NAX0513-001X	CRYSTAL	27.000MHz	

DVD loading switch board

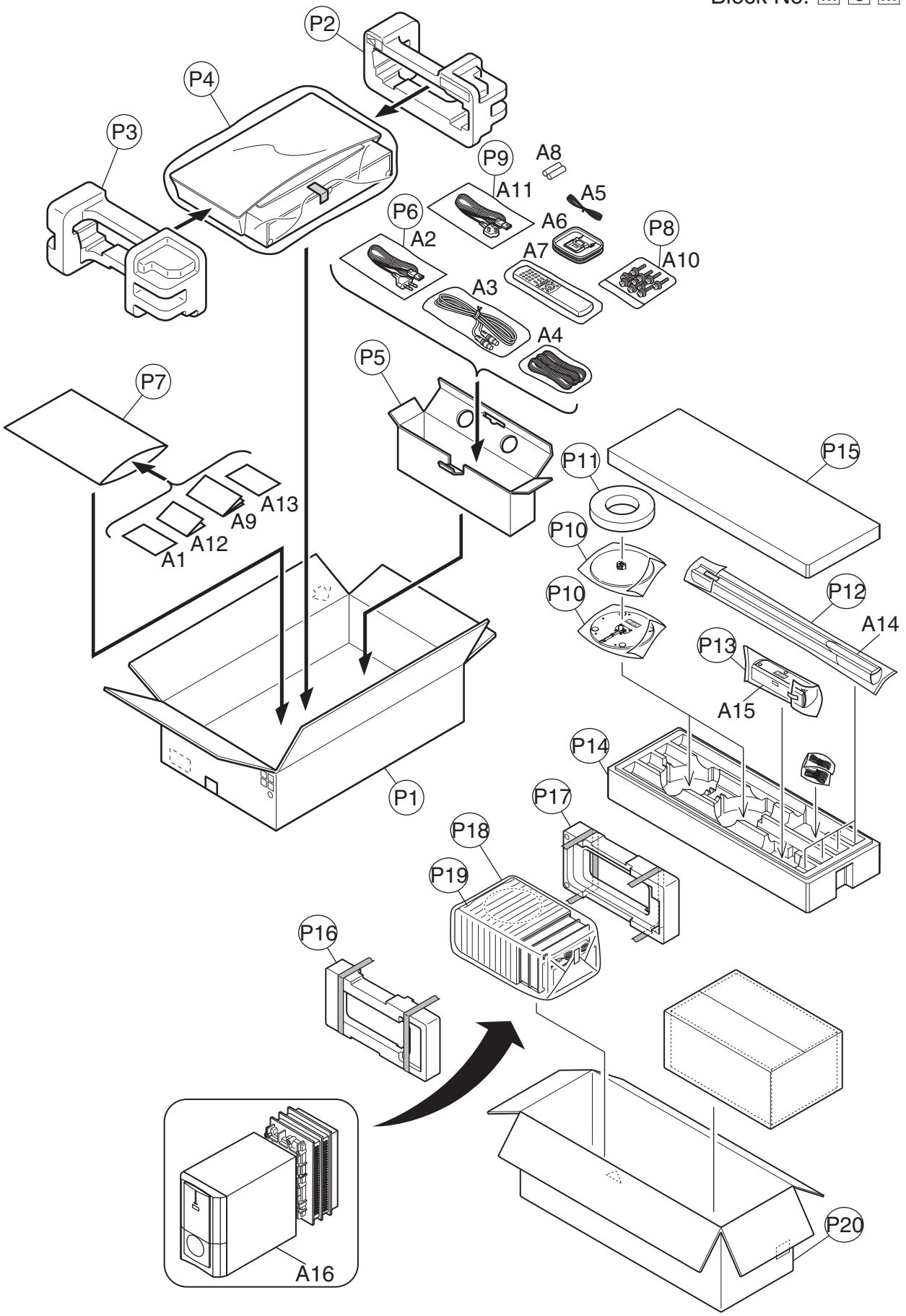
Block No. [0][7][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F3-06	CONNECTOR	FFC/FPC (1-6)	
S1	QSW0910-002	SWITCH		
S2	QSW0910-002	SWITCH		

< MEMO >

Packing materials and accessories parts list

Block No. M 3 M M



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
A 1	LVT1025-003C	INST BOOK	ENG	THA85B
A 1	LVT1025-004C	INST BOOK	GER,FRE,DUT	THA85E
A 1	LVT1025-005B	INST BOOK	SWE,FIN,DAN	THA85EN
⚠ A 2	QMPL060-183-JD	POWER CORD(EU)	1.83m BLACK	THA85E, THA85EN
A 3	QAM0381-001	SYSTEM CABLE		
A 4	LV43454-001A	SPK CORD ASSY		
A 5	QAL0457-001	ANT.WIRE		
A 6	QAL0014-001	AM LOOP ANT		
A 7	RM-STHA55R	REMOCON UNIT		
A 8	----------	BATTERY	(x2)	
A 9	BT-54013-6	WARRANTY CARD		
A 10	QYSPSPH4025Z	SCREW	M4 x 25mm(x16)	
⚠ A 11	QMPP060-183-JD	POWER CORD(EK)	1.83m BLACK	THA85B
A 12	VNA3000-204	REGISTER CARD		THA85B
A 13	LVT1025-006B	INST BOOK	GER,FRE,SPA,ITA	THA85EN
A 14	XTHA85SEV-SPBOX	SPEAKER BOX	(x4)	
A 15	XTHA85CEV-SPBOX	SPEAKER BOX		
A 16	SPPWA55E-SPBOX	SPEAKER BOX		
P 1	LV34293-013A	CARTON BOX		
P 2	LV10790-001A	CUSHION(L)		
P 3	LV10791-001A	CUSHION(R)		
P 4	QPC05005015P	POLY BAG	50cm x 50cm	
P 5	LV21537-001A	ACCESSORY BOX		
P 6	QPA01202505	POLY BAG	12cm x 25cm	THA85E, THA85EN
P 7	QPA02503505P	POLY BAG	25cm x 35cm	
P 8	QPA00500805	POLY BAG	5cm x 8cm	
P 9	QPA01503503	POLY BAG	15cm x 35cm	THA85B
P 10	8500045491	MIRROR MAT BAG	FOR STAND ASSY(x4)	
P 11	8000051901	CUSHION	LV34230-001A(x2)	
P 12	8500045471	MIRROR MAT BAG	(x4)	
P 13	8500045481	MIRROR MAT BAG	FOR CENTRE	
P 14	8000051811	CUSHION (BTM)	LV21505-001A	
P 15	8000051801	CUSHION (TOP)	LV21504-001A	
P 16	8000052611	CUSHION (BTM)		
P 17	8000052601	CUSHION (TOP)		
P 18	8500051901	POLY BAG		
P 19	8500051801	MIRROR MAT		
P 20	8300048821	INDIVL CARTON		